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LOCAL
COASTAL
PROGRAM



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UNIVERSITY OF CALIFORNIA

LOCAL COASTAL PROGRAM

LAND USE PLAN

CITY OF PACIFIC GROVE

AN ELEMENT OF THE GENERAL PLAN

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

5308 S. DICKINSON DRIVE

CHICAGO, ILLINOIS 60637-1508

LOCAL COASTAL PROGRAM
LAND USE PLAN
CITY OF PACIFIC GROVE
AN ELEMENT OF THE GENERAL PLAN

APPROVED BY THE PLANNING COMMISSION March 14, 1989

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This publication was prepared with financial assistance from the Office of Coastal Zone Management, National Oceanic and Atmospheric Administration, under the provisions of the Federal Coastal Zone Management Act of 1972, as amended, and from the California Coastal Commission, under the provisions of the California Coastal Act of 1976.

THE
OFFICE OF THE
ATTORNEY GENERAL
OF THE STATE OF CALIFORNIA

IN REPLY TO YOUR LETTER OF JANUARY 11, 1951.

YOUR LETTER OF JANUARY 11, 1951,
HAS BEEN RECEIVED AND IS BEING
HANDLED BY THE
APPROPRIATE AGENCIES.

VERY TRULY YOURS,
[Signature]

JOHN W. WATSON, JR.
ATTORNEY GENERAL
STATE OF CALIFORNIA
SAN FRANCISCO, CALIF.

ENCLOSURE
[Stamp]

THIS MATTER IS BEING HANDLED BY THE
APPROPRIATE AGENCIES AND WILL BE
REPLIED TO AS SOON AS POSSIBLE.
YOUR COOPERATION IN THIS MATTER IS
APPRECIATED.

ACKNOWLEDGEMENTS

This plan was prepared by the City of Pacific Grove with assistance from:

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Special thanks are given to the City Council's Citizens Committee on the LCP, for its exceptional contribution to the understanding of coastal issues in the City of Pacific Grove:

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THE UNITED STATES OF AMERICA

It is the policy of the United States to support the efforts of the people of the Western Hemisphere to achieve and maintain a high standard of living and to ensure the economic and social development of the area. This policy is based on the principle that the United States has a common interest with the people of the Western Hemisphere in the achievement of a high standard of living and in the economic and social development of the area. This policy is based on the principle that the United States has a common interest with the people of the Western Hemisphere in the achievement of a high standard of living and in the economic and social development of the area.

INTRODUCTION

The United States is committed to the principle of self-determination for the people of the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of self-determination for the people of the Western Hemisphere.

The United States is committed to the principle of non-interference in the internal affairs of the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of non-interference in the internal affairs of the Western Hemisphere.

The United States is committed to the principle of economic and social development for the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of economic and social development for the Western Hemisphere.

The United States is committed to the principle of peace and stability in the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of peace and stability in the Western Hemisphere.

The United States is committed to the principle of democracy in the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of democracy in the Western Hemisphere.

The United States is committed to the principle of human rights in the Western Hemisphere. This principle is based on the right of the people to determine their own political, economic, and social future. The United States is committed to the principle of human rights in the Western Hemisphere.

1. INTRODUCTION

1.1 THE CALIFORNIA COASTAL ACT

In the general election of November 1972, the people of the State of California approved a ballot initiative known as Proposition 20, establishing the California Coastal Commission and six regional commissions. The charge of these commissions was to manage the coastal zone as a resource of statewide interest through the exercise of permit authority. Concurrently, the commissions were to prepare a comprehensive Coastal Plan "to preserve, protect, and where possible, to restore the resources of the coastal zone for the enjoyment of the current and succeeding generations." The Coastal Plan, completed in late 1975, served as the basis for permanent coastal legislation.

In 1976, the state legislature passed the California Coastal Act. The basic goals of the Coastal Act, as stated in the Public Resources Code, Section 30001.5, are to:

- a) Protect, maintain, and where feasible, enhance and restore the overall quality of the coastal zone environment and its natural and man-made resources;
- b) Assure orderly, balanced utilization and conservation of coastal zone resources taking into account the social and economic needs of the people of the state;
- c) Maximize public access to and along the coast, and maximize public recreation opportunities in the coastal zone consistent with sound resource conservation principles and constitutionally protected rights of private property owners;
- d) Ensure priority for coastal-dependent development and coastal-related development over other development on the coast;
- e) Encourage state and local initiatives and cooperation in preparing procedures to implement coordinated planning and development for mutually beneficial uses, including educational uses, in the coastal zone.

1.2 THE PACIFIC GROVE LOCAL COASTAL PROGRAM

A central feature of the Coastal Act is the transfer of most of the authority vested in the Coastal Commission by the Coastal Act to the local governments through adoption and certification of "Local Coastal Programs." The "Local Coastal Program" (LCP) consists of a local government's land use plans, zoning ordinance, zoning district maps and other ordinances, which when taken together, meet the requirements of, and implement the provisions and policies of the Coastal Act at the local level. Each LCP will reflect the coastal issues and concerns of the local jurisdiction and must be consistent with the statewide policies of the Coastal Act. The adopted and certified LCP is legally binding on the local jurisdiction. Certification by the Coastal Commission will result in the transfer of coastal development permit authority to the local government.

The Local Coastal Program is divided into two major parts: the Land Use Plan (LUP) and the Implementation Plan. The Land Use Plan is defined in the Public Resources Code as the "... relevant portions of a local government's general plan, or local coastal element which are sufficiently detailed to indicate the kinds, location, and intensity of land uses, the applicable resource protection and development policies, and, where necessary, a listing of implementing actions." The Implementation Plan includes zoning and ordinance revisions and proposes other programs needed to carry out the goals, policies, and land use designations of the Land Use Plan.

The Local Coastal Program is an important process in determining the future of Pacific Grove's coastal zone. Like any planning program, it must remain pertinent and up-to-date in order to be effective. The Coastal Act provides for Commission review of the LCP at least every five years, and, in addition, the City may prepare and submit LCP amendments for review by the Coastal Commission on a periodic basis. Amendments must also be "certified" before becoming effective. Commission regulations currently permit up to three LCP amendments each year.

1.3 LCP LAND USE PLAN ORGANIZATION AND SUPPORTING DOCUMENTS

The LUP is divided into four major sections, each of which focuses on a major group of Coastal Act Policies: Resource Management, Land Use and Development, Public Facilities, and, Public Shoreline Access. Each section includes background information, a summary of applicable Coastal

Act policies, a discussion of existing local policies and Land Use Plan policies.

The Land Use Plan has been developed through an extensive process of technical research, an evaluation of the experience of other coastal jurisdictions, and intensive public discussion. Several background reports were prepared by the staff of the California Coastal Commission and made available for public review and comment as part of the LUP preparation process. Consultant reports on Archaeology, Circulation, and Land Habitat Sensitivity were also prepared to support the LUP. In May 1981, the City Council appointed a Citizens' Committee to review the draft Land Use Plan and to make recommendations concerning its revisions. The Citizens' Committee's report of June 1984 contains extensive background information and policy recommendations concerning the LUP. The report, together with the other documents, is an important basis for this document. In addition there have been extensive written comments on the LUP throughout the process of its development. Taken together, these documents form the Technical Appendix and Public Response to the LUP, and are on file for review at the City of Pacific Grove Community Development Department and the Pacific Grove Public Library.

1.4 RELATIONSHIP OF LCP LAND USE PLAN TO OTHER PLANS AND LAWS

The Legislative goals and policies set forth in Chapters 1 and 3 of the California Coastal Act of 1976 constitute the guiding policies for the City of Pacific Grove's LCP Land Use Plan. The text of these policies is attached in Appendix A and should be referred to when reading this plan. Any interpretation of the policies of the Land Use Plan must be consistent with the Coastal Act.

The LCP Land Use Plan is an element of the City's General Plan. Within the coastal zone area of the City, the LCP Land Use Plan shall take precedence over the General Plan and its other elements where policies are similar or conflict. When the Land Use Plan is silent, such as concerning the subject of housing, appropriate elements of the General Plan are in force. Where policies within this plan overlap or conflict, the policy that is the most protective of coastal resources shall take precedence.

In reviewing or carrying out projects outside the coastal zone, the City will consider the effect of such projects or actions on coastal zone resources in order to ensure that the policies of the Pacific Grove LCP Land Use Plan are achieved.

RESOURCE MANAGEMENT

11/11/2020

2. RESOURCE MANAGEMENT

2.1 NATURAL HAZARDS

2.1.1 Background

The most significant natural hazards along the Pacific Grove coastline are large winter waves and bluff erosion. Tsunamis (seismically-induced sea waves) have a relatively lower potential for damage to life and property due to the configuration of Monterey Bay and orientation of the Pacific Grove coastline.

Although the exposed granite rock mass at the Pacific Grove shoreline is erosion-resistant, a combination of wave attack and heavy pedestrian use has resulted in localized shoreline erosion. The City has sought to remedy this problem through an on-going sea wall construction program, riprapping and/or diking. As a result, the natural character of the Bay shoreline within the City has been altered to some extent by sea wall construction between Pt. Pinos and Pt. Cabrillo.

While bluff erosion along the Pacific Grove shoreline has generally been a localized problem, the winter storms of 1982-83 resulted in extensive damage. Riprapping washed out, storm drains were damaged, and parking areas were destroyed by the strong waves from these storms. However, the immediate shoreline area is used predominately for open space/recreational purposes and there are few structural improvements seaward of Ocean View Blvd.

2.1.2 Relevant Coastal Act Policies

Coastal Act policies relating to shoreline processes and natural hazards require that shoreline protection structures, such as seawalls, only be permitted where they serve coastal-dependent uses or protect existing structures or beaches in danger from erosion, and also where designed to eliminate or mitigate adverse impacts on local shoreline sand supply. (Section 30235)

In addition, other coastal policies require that any development, such as seawalls, be sited and designed to: 1) prevent degrading impacts on adjacent environmentally sensitive habitat areas (Section 30240); 2) mitigate adverse

impacts on archeological resources (Section 30244); 3) protect ocean views, minimize the alteration of natural land forms, and be visually compatible with and subordinate to the surrounding character of the area (Section 30251); and 4) provide, and not interfere with, public access to and along the shoreline (Sections 30211 and 30212). Finally, Coastal Act policies require that all new development minimize risks to life and property in hazard areas (Section 30253(1)) and not create, nor contribute to, erosion, instability, destruction of a site, or require devices that substantially alter natural bluff and cliff forms (Section 30253(2)).

2.1.3 Existing Policies and Regulations

The combination of public ownership and existing City policies and ordinances severely limit further structural use of the immediate shoreline area. The ocean front lands are committed to open space and recreational uses by the City General Plan's Open Space/Conservation Element and Environmental Hazards Element.

The effect of the policies and land ownership along the shoreline is to reduce substantially the risks to life and property from storm/tsunami hazards and bluff erosion. However, certain policy areas, such as the effect of seawall construction, are not specifically covered by City policy, and other areas require strengthening or further implementation.

LUP policies on shoreline hazards that follow, supplement existing City policies and regulations by providing for:

- o Specific attention to the possible effects of major new seawall construction;
- o Implementation of City policy calling for detailed park planning along the shoreline in order to find ways to minimize bluff erosion and reduce other potential impacts on coastal resources; and
- o Expanded policies on protection from storm wave/tsunami hazards.

2.1.4 General Policies

1. The City will minimize the need for new seawall construction through development of an overall Coastal Parks Plan addressing management and, where necessary, restoration

of the Pacific Grove coastal park lands, including control of pedestrian use, parking, and ground squirrel activities. Any necessary seawall construction and maintenance will be integrated into a Coastal Parks Plan.

2. The City will coordinate planning and management of the Pacific Grove coastal park lands as far as possible, with adjacent jurisdictions and other public agencies such as the City of Monterey, Monterey County, and State Department of Parks and Recreation, the State Department of Fish and Game, and the U.S. Coast Guard.

3. New seawall construction along the Pacific Grove shoreline will be limited to protection of existing coastal-dependent recreational uses and support facilities in critical danger from erosion. New seawalls shall not be constructed to serve new coastal development, nor where other measures established in the Coastal Parks Plan can adequately mitigate erosion hazards.

4. In order to minimize potential damage to life and property from storm waves and tsunamis, the use of land adjacent to the shoreline below the 20' elevation shall be limited to open space, low intensity recreational uses, support facilities, and coastally-dependent and coastally-related development at Lover's Point, Hopkins Marine Station, and Monterey Bay Aquarium.

5. The City will maintain a warning system and procedures for protection of life and property in coastal areas subject to storm and tsunami hazard.

2.1.5 Specific Policies

1. New seawall construction (including extension of existing seawalls), where determined to be necessary in order to protect existing coastal-dependent uses from erosion hazards, shall be designed to eliminate or mitigate adverse impacts on local shoreline sand supply, and other coastal resources.

2. New seawall construction (including extension of existing seawalls) shall be sited and designed to enhance coastal access; protect coastal views, minimize alteration of, and be visually subordinate to, the natural character of the shoreline; and protect archeological resources.

3. Major seawall construction (including extension or renovation of existing seawalls) shall be guided by a master plan for shoreline protection to be prepared by the City of Pacific Grove as part of the Coastal Parks Plan.

Major seawall construction shall mean improvements to a single seawall project in excess of \$15,000 (1987 constant dollars) in one fiscal year and requiring the use of an outside contractor vis-a-vis force work. The term major seawall construction shall not apply to emergency repair work required to repair storm or seismic damage necessary for the protection of the public.

Shoreline protection recommendations and plans shall be developed by qualified experts in marine hydrology, shoreline processes and engineering and shall be consistent with all resource protection and public shoreline access policies of the LUP. Standards and procedures for emergency measures for shoreline protection shall be included. Until the master plan is completed, the City of Pacific Grove may make emergency repairs to existing seawalls or construct temporary shoreline protection devices when needed to protect essential public services and facilities including roads, or public shoreline access facilities.

Prior to making emergency repairs or constructing temporary shoreline protection devices along Sunset Drive, the City of Pacific Grove shall consult with the State Department of Parks and Recreation to design the most environmentally sensitive methods of accomplishing the work.

4. Signs indicating danger of large waves will be maintained at appropriate locations, and where possible will be combined with coastal access and habitat protection signing described in other sections of this plan.

2.1.6 Recommended Actions

1. Minimize erosion of the Lovers Point area through the installation of sign(s) directing people to use stairways to the beach.

2.2 ENVIRONMENTALLY SENSITIVE HABITATS: WATER AND MARINE RESOURCES

2.2.1 Background

The rich and diverse marine habitat along the Pacific Grove coastline is protected and controlled by local and state regulations. The Pacific Grove Marine Gardens Refuge and the Hopkins Marine Life Refuge, both established by the State Legislature, as well as an Area of Special Biological

Significance (ASBS) designated by the State Water Resources Control Board, encompass the waters offshore of Pacific Grove.

In addition, the tidelands grant to the City from the State of California prohibits use of those tidelands for "commercial, industrial or revenue producing uses or purposes" although use of the tidelands for "boat and yacht harbors, boating and yachting, swimming tanks, and other like and kindred purposes" is permitted.

A study in May 1980 of the California Department of Fish and Game Marine Gardens/ASBS made several recommendations for improved management of these areas. These included more consistent enforcement of regulations, and long-term monitoring studies to detect possible effects of water pollution, or other sources of habitat degradation. Refer to the Pacific Grove LCP Working Paper #1 on Access and Natural Resources (October 1980), and the "Historical Background" section (pp. A-22-2 to A-22-9) of the Proposed Local Coastal Plan (August 1984) prepared by the City's Citizens' Committee for a more detailed discussion of marine resources.

Crespi Pond, a small but valuable wetland, is located on Ocean View Boulevard between Pt. Pinos and the western end of Asilomar Avenue. Crespi Pond provides a stopping place for migrating birds including terns, gulls, many species of ducks, and Canadian geese. In total, more than 200 different birds have been sighted. It is a site for ornithological studies, and is of interest to the scientific community. In recent years, the pond has experienced excessive plant growth, and accelerated eutrophication of the pond has become a concern. Management will be necessary to retain the open pond characteristic of Crespi Pond. This may include vegetation control and dredging.

2.2.2 Relevant Coastal Act Policies

Coastal Act policies relating to marine resources require that these resources be maintained, enhanced and, where feasible, restored; that areas of special biological significance be given special protection; and that uses protect the biological productivity of coastal waters and maintenance of healthy populations of all species (Section 30230). Control over specific types of adverse impacts on coastal waters, such as polluted runoff, wastewater discharges, etc., and spillage of hazardous substances is also required (Section 30231 and Section 30232).

Additional policies require protection of sensitive habitat areas against disruption and inappropriate use, both within and adjacent to the habitat (Section 30240); and require protection of coastal waters, wetlands, estuaries and lakes from inappropriate diking, filling and dredging, with specified exceptions (Section 30233).

2.2.3 Existing Policies and Regulations

The policies and regulations establishing the Marine Gardens/ASBS designations provide for the protection of those resources from disturbance and degradation.

The policies that follow provide for:

- o Coordinated State/local enforcement of existing regulations, and enhanced management of the Marine Gardens.
- o Control over runoff and erosion affecting offshore waters.
- o Cooperation in long-term ecological monitoring studies.

2.2.4 General Policies

1. The City will continue to work with the State Department of Fish and Game and other agencies in developing and maintaining a coordinated approach for enforcing both State and local regulations protecting the Pacific Grove Marine Gardens.

2. The City shall assist, where possible, the appropriate institutions or agencies to undertake long-term ecological studies monitoring the marine resources and water quality of the Pacific Grove Marine Gardens and ASBS.

3. In addition to the City's tidelands, Crespi Pond and the Majella Slough riparian area shall be considered as environmentally sensitive habitat areas.

4. No diking, filling, dredging, or other uses inconsistent with the terms of the grant from the State of California shall be allowed in the City's tidelands. No significant alteration of freshwater wetlands -- Crespi Pond and Majella Slough -- shall be allowed, except for maintenance dredging and similar activities essential for restoration of natural habitats.

2.2.5 Specific Policies

1. The City shall work with the State Water Resources Control Board and Resource Conservation District to determine whether a comprehensive erosion control ordinance is needed to protect the Marine Gardens from siltation and erosion originating within the boundaries of Pacific Grove, including the area outside the Coastal Zone.
2. To reduce the potential for degradation of the ASBS/Marine Gardens, the City shall require, where necessary, drainage plans and erosion, sediment and pollution control measures. as conditions of approval of every application for new development.
3. The City shall investigate specific measures for reduction of pollution potential in stormwater runoff, including regulations to control the disposal of chemicals and hazardous materials, and maintenance of the existing stormwater capture program at the Golf Course, Greenwood Park, and Chase Park.

2.2.6 Recommended Actions

1. The City will form a technical advisory committee to review and determine what measures are needed to slow the eutrophication of Crespi Pond and to ensure the pond's continued existence.
2. An information and interpretation program to increase public awareness of the valuable marine resources and habitat in the ASBS/Marine Gardens should be maintained and expanded by the City, with its base in the Pacific Grove Museum of Natural History, the Monterey Bay Aquarium or other appropriate location. This should include appropriate signing consistent with the City's policy of protecting the visual qualities of highly scenic areas.
3. As part of the planning process for the Pacific Grove Coastal Parks Plan, the City should consider alternative approaches to coordinated enforcement of State and local regulations protecting the Pacific Grove Marine Gardens Fish Refuge/ASBS.

2.3 ENVIRONMENTALLY SENSITIVE HABITATS: COASTAL LAND RESOURCES

2.3.1 Background

The coastal zone of Pacific Grove contains several land habitats that are considered environmentally sensitive. These are the shoreline pine forest/sand dune association and the pine/eucalyptus overwintering habitat of the Monarch butterfly. The principal Monarch butterfly clustering sites in Pacific Grove are located very near, but not within, the coastal zone, in the vicinity of the Butterfly Grove Inn and in George Washington Park. However, the butterfly populations use areas within the coastal zone for feeding and transit to the groves.

The land habitat of greatest sensitivity is the sand dune complex from the Lighthouse Reservation to Asilomar Conference Grounds. Not only are native dune plants fragile, and dune formations easily destabilized, but the dunes are habitat for two endangered plant species - Menzies' wallflower and Tidestrom's lupine. Human disturbance and competition from exotic vegetation continue to threaten the survival of these rare plants. Remaining plants are found in limited areas on private land in the Asilomar area and on public property in the northern portion of the Asilomar State Conference Grounds.

A special report entitled "Habitat Sensitivity and Identification", was prepared for the LUP and provides the basis for policies in this section. The report is available for review at the Pacific Grove Community Development Department and Coastal Commission offices in Santa Cruz. The Pacific Grove LCP Working Paper #1 on Access and Natural Resources (October 1980) and the Pacific Grove LCP Citizens Committee Proposed Local Coastal Plan (August 1984) can be referred to for a detailed discussion of coastal land habitats.

2.3.2 Relevant Coastal Policies

Section 30240 of the Coastal Act requires protection of environmentally sensitive areas. These areas must be protected against "any significant disruption", including impacts from development in adjacent areas. Only resource-dependent uses are allowed in sensitive areas, and adjacent uses must be compatible with continuance of sensitive habitat areas.

U.S. GOVERNMENT PRINTING OFFICE: 1964

The present form of the U.S. Government Printing Office is the result of a long and complex process. It is the product of the efforts of many individuals and organizations who have worked to improve the quality and efficiency of the government's printing operations. The process has been a continuous one, with many changes and improvements over the years. The present form is the result of the most recent efforts to improve the government's printing operations.

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2.3.3 Existing Policies and Regulations

The Open Space/Conservation Element of the Pacific Grove General Plan contains protective policies for the overwintering sites of the Monarch butterfly, in particular Washington Park. In 1952, the City also adopted an ordinance making molestation of or interference with the Monarchs unlawful.

The Open Space/Conservation Element states as a principal objective the preservation of open space areas required by plant and animal life, including dune lands. The Open Space/Conservation Element recommends that property owners in the Asilomar Dunes area be notified of the presence of Menzies' wallflower and Tidestrom's lupine on the property, and be assisted in preserving and maintaining the plants.

The Lighthouse Reservation is identified in the Open Space Element as an area of Scientific and Ecological Significance and also as an active recreational area. Efforts are being made by the Pacific Grove Museum of Natural History to restore a native dune plant community at the Reservation.

The Lighthouse Reservation, Golf Course and adjacent shoreline areas are managed by the City under lease from the U.S. Coast Guard. The remainder of the immediate shoreline area, with two exceptions, is under State or local ownership and managed as park land.

The Asilomar State Park and Conference Grounds is covered by a State-adopted Resource Management/General Development Plan (1976), except for the immediate shoreline area (known as Asilomar State Beach). The Asilomar Plan contains a detailed evaluation of habitat types and sensitivity. The recommendations of the Asilomar Plan seek to limit the impacts of new development on sensitive areas, preserve wetland habitat (Majella Slough, the site of the former Lake Majella), restore native vegetation and control pedestrian use and impacts in fragile areas, such as sand dunes.

As part of the coastal permit process, the Coastal Commission has conditioned permits in the Asilomar dunes area to require protection of rare and endangered plant habitat. These requirements have included:

- o Review of the site by a qualified landscape or botanical consultant to determine the existence and location of rare and endangered plants.

THE HISTORY OF THE UNITED STATES

The first of the great American historians, John Fiske, has written a history of the United States which is not only a masterpiece of scholarship but also a masterpiece of style. It is a history which is both a masterpiece of scholarship and a masterpiece of style.

The second of the great American historians, James F. Johnson, has written a history of the United States which is not only a masterpiece of scholarship but also a masterpiece of style. It is a history which is both a masterpiece of scholarship and a masterpiece of style.

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- o Preparation of grading and landscape plans to minimize adverse impacts of development and construction activities on endangered plant species, including transplanting and propagation where necessary.
- o Limitation of site coverage for new development, and resiting or redesigning of the project to minimize impacts on botanic resources.
- o Requirement for a conservation easement to protect the nondeveloped portions of a site from disturbance and allow entry for scientific research purposes.

The following policies encourage management of City and State shoreline areas to reduce impacts on, and restore native plant habitat, and to minimize the disturbance of habitats for rare and endangered species by new development on private and public land.

2.3.4 General Policies

1. The City will maintain its protective policies and ordinances concerning the overwintering Monarch butterfly population in Pacific Grove. The City will encourage the planting and preservation of vegetation useful to the Monarch butterfly for feeding or clustering, and will ensure that any new development within the coastal zone in proximity to trees used by butterflies will not adversely affect the butterflies or the habitat.

2. The City shall protect, maintain and enhance the habitat areas of Menzies' wallflower and Tidestrom's lupine.

3. As funding is available the City will develop a Coastal Parks Plan for the management and restoration of the Pacific Grove coastal parklands, including the Lighthouse Reservation. The purpose of the Plan, in part, is to:

- a) Rehabilitate areas damaged by pedestrian/auto/ground squirrel overuse;
- b) Revegetate with native bluff and dune plants where feasible;
- c) Protect habitats of rare and endangered species;
- d) Provide defined pathways or boardwalks, where desirable, and control unrestricted parking by appropriate barriers or other means; and

- e) Expand existing signs to include interpretive information for visitors.
- f) Implement LCP policies on coastal access, visual resources, and seawall construction.
- g) Preserve any Monarch butterfly overwintering sites which may be identified, and enhance vegetation used for nectaring and feeding by the Monarchs.

New development within the area covered by the Coastal Parks Plan shall be consistent with the standards and procedures identified by such Plan.

4. The City will use the findings and habitat classifications of the Habitat Sensitivity and Identification Study (including both text and map) prepared for the Local Coastal Program as a basis for implementing the General Policies #2 and #3 of this section. Development projects proposed within any area mapped as A-1, B-2, or B-3 on Figure 2, the Habitat Sensitivity Map, will be required to prepare a botanical survey prior to project approval. Such surveys shall be conducted, at applicant's expense, by a qualified botanic expert selected from a list to be maintained by the City, in consultation with the Museum of Natural History.

2.3.5 Specific Policies

Asilomar Dunes Area

1. New development in the Asilomar Dunes area (bounded by Asilomar Avenue, Lighthouse Avenue, and the boundary of Asilomar State Park) shall be carefully sited and designed to protect existing and restorable native dune plant habitats, as well as the native oaks and pine forest which stabilize the inland edge of the high dunes along Asilomar Avenue southwards from the vicinity of its intersection with Pico Avenue. No development on a parcel containing environmentally sensitive habitat shall be approved unless the City is able to find that, as a result of the various protective measures applied, no significant disruption of such habitat will occur. In order that the City can make the required findings of no significant disruption, the requirements listed below and in Sections 3.4.4 and 3.4.5 shall apply.

- a) A botanical survey shall be required on any property having A-1, B-2, or B-3 habitats, as mapped on the Habitat Sensitivity Map (Figure 2), prior

1. The first step in the process of identifying the problem is to define the problem in terms of the symptoms and signs that are observed.

2. The second step is to identify the possible causes of the problem. This is done by considering the symptoms and signs and the history of the patient.

3. The third step is to perform a physical examination of the patient. This is done to identify any physical signs that may be present.

4. The fourth step is to perform a laboratory examination of the patient. This is done to identify any abnormal results that may be present.

5. The fifth step is to perform a differential diagnosis. This is done by considering the possible causes of the problem and the results of the physical and laboratory examinations. The differential diagnosis is a list of possible causes of the problem, ranked in order of likelihood.

2.2.2. Differential diagnosis

2.2.2.1. Definition

A differential diagnosis is a list of possible causes of a patient's symptoms and signs, ranked in order of likelihood. The differential diagnosis is a key part of the diagnostic process, as it allows the physician to consider all possible causes of the problem and to identify the most likely cause. The differential diagnosis is based on the patient's history, physical examination, and laboratory examination. The differential diagnosis is a list of possible causes of the problem, ranked in order of likelihood. The differential diagnosis is a key part of the diagnostic process, as it allows the physician to consider all possible causes of the problem and to identify the most likely cause. The differential diagnosis is based on the patient's history, physical examination, and laboratory examination.

6. The sixth step is to perform a treatment plan. This is done by considering the differential diagnosis and the results of the physical and laboratory examinations. The treatment plan is a list of interventions that are likely to be effective in treating the problem.

to approval of construction of any new buildings, paved area, expansion of existing structures, subdivision of land, grading, or other development activity which could materially disturb existing natural vegetation. The botanic survey shall be conducted during the appropriate flowering season for each rare plant species potentially present; and shall be submitted to the Pacific Grove Museum of Natural History and the California Department of Fish and Game for comments prior to final acceptance by the Community Development Director.

- b) Where a botanical survey identifies populations of endangered species, all new development shall be sited and designed to cause the least possible disturbance to the endangered plants and their habitat. Other stabilizing native dune plants shall also be protected.

Site coverage proposed for new development (including driveways, accessory buildings and other paved areas) shall be reduced from the maximum coverage allowed in Chapter 3 of this plan, and by relevant zoning, to the extent necessary to ensure protection of Menzies' wallflower or Tidestrom's lupine habitat determined to be present on the site.

- c) During construction of new development, habitat areas containing Menzies' wallflowers or Tidestrom's lupines or other rare and endangered species shall be protected from disturbance. Temporary wire mesh fencing shall be placed around the habitat prior to construction and the protected area shall not be used by workers or machinery or for storage of materials. Compliance inspection(s) will be made during the construction phase.
- d) The alteration of natural land forms and dune destabilization by development shall be minimized. Detailed grading plans shall be submitted to the City before approval of coastal development permits.
- e) If an approved development will disturb dune habitat supporting or potentially supporting Menzies' wallflower, Tidestrom's lupine or other rare or endangered species, or the forest front zone along Asilomar Avenue south of Pico Avenue, that portion of the property beyond the approved building site and outdoor living space (as provided

in Section 3.4.5.2) shall be protected by a written agreement, deed restrictions or conservation easement granted to an appropriate public agency or conservation foundation. These shall include provisions which guarantee maintenance of remaining dune habitat in a natural state, provide for restoration of native dune plants under an approved landscape plan, provide for long-term monitoring of rare and endangered plants and maintenance of supporting dune or forest habitat, and restrict fencing to that which would not impact public views or free passage of native wildlife. Easements, agreements or deed restrictions shall be approved prior to commencement of construction and recorded prior to sale or occupancy.

- f) For any site where development will disturb existing or potential native dune plant habitat, a landscaping plan shall be prepared and submitted to the City for approval prior to construction. Only native dune plants should be used for landscaping within a conservation easement. Landscaping with exotic plants shall be limited to immediate outdoor living space adjacent to the proposed development (i.e., the building envelope as defined in Sec. 3.4.5.2). Invasive non-native plants - such as Pampas grass, Acacia, Genista, and non-native iceplants - pose a threat to the indigenous plant community and will not be approved as part of such landscaping.
- g) Utility connections shall be installed in a single corridor if possible, and should avoid surface disturbance of areas under conservation easement.
- h) Sidewalks shall not be required as a condition of development permit approval in the Asilomar dunes unless the City makes a finding that sidewalks are necessary for public safety where heavy automobile traffic presents substantial hazards to pedestrians, no reasonable alternative exists and no significant loss of environmentally sensitive habitat would result.
- i) The undeveloped private parcels west of Sunset Boulevard between the Asilomar State Beach and the Lighthouse Reservation should be acquired by a public agency for protection of their outstanding scenic qualities and their potential for habitat restoration.

- j) In certain cases the environmental review or coastal permit process may reveal an undeveloped private parcel which has an exceptional concentration of rare dune plants, or which includes particularly scenic views of forest and dunes westerly of Asilomar Avenue. Often, such parcels can be developed without significantly impairing these special qualities. However, where significant impairment is unavoidable, or where it is not feasible to develop the parcel in conformance with these policies, then acquisition and preservation by a charitable trust or public agency will be supported.

Coastal Parklands

2. The following recommendations shall be incorporated in the Coastal Parks Plan described in General Policy 2.3.4.3.

- a) A botanical survey shall be required prior to development which impacts habitats identified as A-1, B-2, or B-3 on the Habitat Sensitivity Map, with the survey being conducted by a qualified botanical specialist on the entire area during the flowering season.
- b) In Planning Area II (from 3rd Street to Fountain Avenue), maintain well defined trails along the bluffs with designated accessways to the water.
- c) In Planning Area III (Fountain Avenue to Ocean View and Sea Palm), maintain existing trails and vegetation. Reduce erosion by directing pedestrians to designated beach access ways. Encourage native bluff plants but retain exotic plants. If iceplant die-back occurs due to parasite infestation, consider replanting with non-susceptible native or drought-resistant species rather than spraying to control insects.
- d) In Planning Area IV (Sea Palm to Lighthouse Reservation) where there are a variety of habitats:
 - 1. from Sea Palm to Esplanade, apply Policy 4(c).
 - 2. from Esplanade west, parking area boundaries adjacent to the bluffs should be clearly defined to protect bluff vegetation and reduce erosion, and ground squirrel populations controlled by humane means. Feeding of ground squirrels should be discouraged through sign-

1. The first step in the process of determining the value of a property is to identify the property. This is done by determining the location of the property, the size of the property, and the type of property. Once the property has been identified, the next step is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

2. The second step in the process of determining the value of a property is to identify the property.

2. The second step in the process of determining the value of a property is to identify the property. This is done by determining the location of the property, the size of the property, and the type of property. Once the property has been identified, the next step is to determine the value of the property.

3. The third step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

4. The fourth step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

5. The fifth step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

6. The sixth step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

7. The seventh step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

8. The eighth step in the process of determining the value of a property is to determine the value of the property. This is done by comparing the property to similar properties that have been sold in the area. The value of the property is then determined by taking into account the location, size, and type of the property, as well as the value of similar properties.

ing. Existing isolated bluff plant communities (B-4 on the Habitat Sensitivity Map) can be protected with barriers, and enlarged where iceplant dies back.

3. In the Lighthouse Reservation and Golf Course area, areas of extreme sensitivity (A-1 on the Habitat Sensitivity map) should be protected from further trampling by a low mesh fence. Do not allow machinery in the dune area. Apply irrigation only on turf, not on the sand. Continue to eliminate exotics and restore native dune plants on the Lighthouse Grounds. In suitable areas, plant species which will enhance the overwintering habitat of the Monarch butterfly, by providing additional nectaring and feeding sources. Protect Crespi Pond from any polluted runoff or other disturbances to its waterfowl habitat. Allow carefully controlled dredging of Crespi Pond in order to prevent loss of this important wetland through eutrophication and sedimentation as approved by the City Council upon a recommendation from the Crespi Pond Technical Advisory Committee.
- e) In Planning Area V (Southern Pacific Railroad), pampas grass should be eliminated at the southwest end. Landscaping should be compatible with the type of habitat through which the railroad passes and utilize native plants where that is the predominant adjacent vegetation type. Identify and protect Monarch butterfly overwintering sites, buffer trees, nectaring and feeding areas within and adjacent to the former railroad route. Where developed for recreational trail, municipal golf course or other uses, such Monarch butterfly habitat shall first be identified by appropriate experts approved by the City. The project shall then be designed to avoid any significant disruption of the identified Monarch butterfly habitat, and where appropriate, the right-of-way shall be landscaped and permanently managed to enhance the habitat of this species.

Asilomar State Park and Conference Grounds

3. New development in the lands of Asilomar State Park and Conference Grounds shall be carefully sited and designed to protect the habitat of the rare and endangered Menzies' wallflower and Tidestrom's lupine.

The following recommendations shall be given priority in the State Department of Parks and Recreation's continued development and implementation of its General Plan for Asilomar State Beach and Conference Grounds:

- a) Implement a dune restoration program, including restricting public access, in the northern portion of the Conference Grounds to protect the habitat of rare and endangered dune plants as identified on the Habitat Sensitivity Map.
- b) Undertake dune stabilization programs on the central and southern dunes, including planting of native vegetation, and direct human recreation to well-defined areas.
- c) Expansion or replacement of facilities in the sensitive forest-front transition zone adjacent to the sand dunes shall be restricted to the existing building envelopes or shall take place outside of the forest-front zone.
- d) The native forest of Asilomar should be studied and where necessary maintained through planting of nursery stock grown from site-specific Asilomar stock.
- e) On State-owned land west of Sunset Drive, parking areas should be delineated to reduce habitat damage by vehicles; dunes areas should be monitored and native plants restored and, if necessary, protected with barriers; iceplant allowed to die back where scale infested; and trails designated, with wire fencing installed where necessary to protect habitats.
- f) The Majella Slough, on State property south of Sunset Drive, should be preserved and protected from human intrusion.

Section 1001 - 1002 - 1003 - 1004

1. The Commission in the State of California shall be composed of five members, three of whom shall be appointed by the Governor and two by the Legislature. The Governor shall appoint the Chairman and Vice-Chairman of the Commission.

2. The Commission shall have the honor and privilege of being called upon by the Governor and the Legislature for advice and information on any matter relating to the administration of the State.

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7. The Commission shall have the honor and privilege of being called upon by the Governor and the Legislature for advice and information on any matter relating to the administration of the State.

8. The Commission shall have the honor and privilege of being called upon by the Governor and the Legislature for advice and information on any matter relating to the administration of the State.

Point Cabrillo - Hopkins Marine Station

4. Hopkins Marine Station is encouraged to remove the exotic iceplant and to restore a native bluff plant community on the rocky outcrop area identified in the Habitat Sensitivity and Identification Study.

2.3.6 Recommended Actions

1. The City should undertake and implement a tree management program to maintain and enhance the Monterey pine and Cypress stands within the coastal zone. This program should include among other things:

- o A complete inventory of the trees within the City's coastal zone to determine the age of the trees, disease if any, and the needs for continued reforestation in the City;
- o New tree planting should be an on-going project in order to replace diseased and dead Monterey pines, Monterey cypresses and coast live oaks. Dead trees (snags) should be retained, where possible, to provide habitat for cavity-nesting birds.

2. A task force consisting of residents of Pacific Grove, members of the Pacific Grove Museum of Natural History, the California Native Plant Society, representatives from the California State Department of Parks and Recreation and the Asilomar Operating Board, should be formed for the purpose of:

- propagating the rare and endangered plants Menzies' wallflower and Tidestrom's lupine and any others that may become endangered or rare;
- identifying them and educating the public about rare and endangered plants; and
- developing methods of maintaining these and other native dune plants within the Asilomar residential district, Asilomar Conference Grounds and other appropriate areas.

3. The City should encourage the retention and/or re-establishment of the native site-specific dune flora and in particular the protection of rare and endangered species. Information on propagation and care should be provided.

Further, the City should not permit maintenance or establishment of exotic species which are proven to invade or threaten native dune vegetation.

4. An overall plan for the management and restoration of dune habitat in the Asilomar dunes should be prepared in order to provide the City, property owners, and the State with consistent standards to be applied to development and access proposed in the area. This plan should contain practical guidelines and criteria for development of homes and related improvements in dune areas, and should address erosion and habitat loss resulting from public access. The City may undertake this project alone, or together with Asilomar State Park. Funding assistance from the Coastal Conservancy should be requested to support the project.

5. The City will seek expert assistance: a) to determine the location of feeding and overwintering areas for the Monarch butterfly within and functionally interdependent with the City's coastal zone (including an investigation of the abandoned railroad right-of-way); and, b) to identify appropriate development and habitat preservation standards for coastal development in such areas, to be incorporated in the City's Local Coastal Program implementation measures.

2.4 ARCHAEOLOGICAL RESOURCES

2.4.1 Background

Archaeological resources are located throughout Pacific Grove's coastal zone. An Archaeological Sensitivity Map for Pacific Grove was prepared by the California Archaeological Site Survey, Central Coast Counties Regional Office. This generalized map designates most of the coastal zone as an area where there is a likelihood of prehistoric cultural resources. The map does not distinguish between known sites and potential sites, as past experience has shown that the circulation of maps identifying specific site locations has often led to indiscriminate digging by artifact collectors and vandals. Specific information on recorded sites is available through the California Archaeological Site Survey Regional Office.

An account of the prehistory of Pacific Grove, based primarily on archaeological data, was prepared for the LUP by an archaeological consultant. The complete text of the report, entitled "A Gentle and Peaceful People - The Prehistoric Inhabitants of Pacific Grove," is on file at the City's Community Development Department.

The report indicates that virtually all new information on the original Indian inhabitants of Pacific Grove must come from archaeological excavation and research, as the living culture has been lost. A 1977 archaeological survey, conducted in connection with the Monterey-Pacific Grove regional sewer project, has revealed the existence of a previously unknown village site, estimated to be 4,000 years old. The report concludes that in some areas of the Monterey Peninsula up to 75% of all archaeological information has been irretrievably lost through site disturbance or destruction.

2.4.2 Relevant Coastal Act Policies

Section 30244 of the Coastal Act requires that any potential adverse impacts on archaeological (and paleontological) resources from new development be mitigated through reasonable measures.

2.4.3 Existing Policies and Regulations

The 1973 Open Space Element of the Pacific Grove General Plan contains a brief discussion of archaeological resources. It was assumed at the time that the General Plan

was prepared that no major archaeological sites existed in Pacific Grove and that known sites were located on publicly owned open space lands.

As part of the coastal permit process, the Coastal Commission has conditioned permits in Pacific Grove to require protection of archaeological resources. These requirements have included:

- o Review of the site by a qualified professional archaeologist to determine its value,
- o Resiting or redesigning the project to minimize impact on archaeological resources,
- o Preparation and implementation of an archaeological mitigation plan which could include excavation or protection of the resource for future study by covering with fill.

The following recommendations include policies and procedures necessary to carry out the requirements of Section 30244 of the Coastal Act.

2.4.4 General Policies

1. The City shall ensure the protection, preservation, and proper disposition of archaeological resources within the coastal zone.
2. The City shall assist developers and landowners by providing early identification of sensitive sites so that archaeological resources can be considered and protected during the early phases of project design.

2.4.5 Specific Policies

1. Prior to the issuance of any permit for development or the commencement of any project within the areas designated on Figure 3, the Archaeological Sensitivity Map, the City in cooperation with the State Historic Preservation Office and the Archaeological Regional Research Center, shall:

- a) Inspect the surface of the site and evaluate site records to determine the extent of the known resources.
- b) Require that all sites with potential resources likely to be disturbed by the proposed project be analyzed by a qualified archaeologist with local expertise.

- c) Require that a mitigation plan, adequate to protect the resource and prepared by a qualified archaeologist be submitted for review and, if approved, implemented as part of the project.

2.5 SCENIC RESOURCES

2.5.1 Background

Nearly continuous unobstructed views of the sea are possible along the Pacific Grove shoreline. Few structures exist seaward of Ocean View Boulevard, or Sunset Drive.

The inland side of Ocean View Boulevard, east of Asilomar Avenue, is essentially "built out," and has assumed a residential character. West of Asilomar Avenue, the inland view from Ocean View Boulevard is predominantly open space consisting of a golf course at Lighthouse Reservation. The few structures (Naval and Coast Guard facilities) are situated some distance from Ocean View Boulevard, and are visually subordinate to the Point Pinos Lighthouse.

South of Lighthouse Reservation, the Asilomar Dunes area has been substantially developed with single-family residential dwellings. However, not all the Asilomar Dunes area lots have been developed, and the remaining vacant lands serve to soften the contrast between existing development and the expansive open space seaward of Sunset Drive.

From coastal zone roads inland of Ocean View Boulevard and Sunset Drive, unobstructed bay/ocean views are available at the locations shown on Figure 5, Shoreline Access. Retention of these views to the maximum extent possible is of major importance, because of the visual access to coastal waters they provide.

Working Paper #1 on Access and Natural Resources (October 1980) provides a more detailed discussion of coastal zone visual resources.

2.5.2 Relevant Coastal Act Policies

Coastal Act Section 30251 addresses visual access. Coastal area scenic and visual qualities are to be protected as resources of public importance. Development is required to be sited to protect views, to minimize natural landform alteration, and to be visually compatible with the character of surrounding areas. Where feasible, visual quality in visually degraded areas is to be restored and enhanced.

2.5.3 Existing Policies and Regulations

An objective of Pacific Grove's General Plan is "to protect and preserve open space lands from the encroachment of sprawling urban development." The Open Space and Conservation Plan states that the City's open spaces include "passive recreational areas and scenic lands which provide visual amenities for residents and visitors." The General Plan designates all shorefront lands for open space, except for a visitor-commercial area adjacent to Monterey and a "rural" residential designation on privately-owned property seaward of Sunset Drive. The City's Open Space and Conservation Plan designates the latter properties as "unincorporated lands recommended for open-space," and recommends: "... that Asilomar State Park and the coastline be preserved as open space areas." It also recommends that "no new permanent structure, except which is necessary for public health and safety, be erected seaward of Ocean View Boulevard and Sunset Drive from Asilomar Avenue to the southern boundary of the Planning Area."

The Resource Management Plan/General Development Plan and the Dunes Restoration Plan for Asilomar State Beach and Conference Grounds does not propose any development adjacent to Sunset Drive, with the exception of boardwalks through the dunes and pedestrian control fencing to direct visitors to designated accessways.

The policies that follow supplement and strengthen existing policies and regulations by providing for:

- o Designation of "scenic areas;"
- o Policies controlling the design and siting of structures within scenic areas;
- o Preservation of coastal views from inland locations; and
- o The encouragement of public acquisition of vacant private parcels seaward of Sunset Drive.

2.5.4 General Policies

1. It is the policy of the City of Pacific Grove to consider and protect the visual quality of scenic areas as a resource of public importance. The portion of Pacific Grove's coastal zone designated scenic includes: all areas seaward of Ocean View Boulevard and Sunset Drive, Lighthouse

Reservation lands, Asilomar Conference Ground dune lands visible from Sunset Drive, lands fronting on the east side of Sunset Drive; and the forest-front zone between Asilomar Avenue and the crest of the high dune (from the north side of the Pico Avenue intersection to Sinex Avenue).

2. Within these scenic areas, permitted development shall be sited and designed to protect views to and along the ocean and scenic coastal areas, to minimize the alteration of natural landforms, to be visually compatible with the open space character of surrounding areas, and, where feasible, to restore and enhance visual quality in visually degraded areas.

3. Development standards for scenic areas shall minimize land coverage, grading, and structure height, and provide for maximum setbacks from adjacent public open space areas.

2.5.5 Specific Policies

1. New development, to the maximum extent feasible, shall not interfere with public views of the ocean and bay.

2. New development at Lover's Point, the Hopkins Marine Lab property, and the Lighthouse Reservation lands shall be minimized, and shall conform to the overall scale and character of existing development at these locations.

3. New development including boardwalks within the Asilomar Conference Grounds, visible from Sunset Drive, shall be subordinate to the open space character of the area.

4. New development on parcels fronting on Sunset Drive shall compliment the open space character of the area. Design review of all new development shall be required. The following standards shall apply;

- a) Minimum building setbacks of 75 feet from Sunset Drive shall be maintained. Larger setbacks are encouraged if consistent with habitat protection.
- b) Residential structures shall be single story in height and shall maintain a low profile complementing natural dune topography. In no case shall the maximum height exceed 18 ft. above natural grade within the foundation perimeter prior to grading.
- c) Structures shall be sited to minimize alteration of natural dune topography. Restoration of disturbed

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dunes is mandatory as an element in the siting, design and construction of a proposed structure.

- d) Earthtone color schemes shall be utilized, and other design features incorporated that assist in subordinating the structure to the natural setting.

5. Landscape approval shall be required for any project affecting landforms and landscaping. A landscaping plan, which indicates locations and types of proposed plantings, shall be approved by the Architectural Review Board. Planting which would block significant public views shall not be approved.

6. Undergrounding of utilities is currently required in multiple-family and commercial districts. Utilities serving new single-family construction in scenic areas shall be placed underground. This shall include new electrical service or remodeling greater than 25% of the replacement value of the structure.

7. It is the City's special objective to retain the maximum amount of open space possible on lands seaward of Ocean View Boulevard and Sunset Drive. In these major public viewing areas, the City shall seek assistance in securing scenic conservation easements, and a reduction of development potential through public acquisition of vacant private parcels.

8. New development within the scenic forest-front area along Asilomar Avenue shall be designed to minimize loss of native Monterey pine and oak forest, and to retain public views towards the inland face of the high dunes.

9. To protect the scenic forest-front zone along Asilomar Avenue southwards from the Pico Avenue intersection, the City will support appropriate measures to preserve vacant parcels, and divisible portions of large parcels, through acquisition, dedication of scenic conservation easements or other appropriate measures which would protect public views without loss of environmentally sensitive habitat.

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COASTAL ZONE LAND USE AND DEVELOPMENT

3. COASTAL ZONE LAND USE AND DEVELOPMENT

3.1 INTRODUCTION

Pacific Grove is an old city with a special heritage. Land use patterns throughout most of the city are well established. Little vacant land remains. In many ways, Pacific Grove's development has been exemplary. It is widely known as one of the most pleasant and livable communities on the California coast. Very early, the city set aside most of its shoreline as permanent open space for public recreational use and enjoyment. Older neighborhoods, especially the original Pacific Grove Retreat, have been carefully preserved by the community for their historical interest, architectural values and the charm they give to the city as a whole.

Challenges that lie ahead for the city include ensuring that the shoreline areas always remain open for public use, and that adequate recreational support facilities are provided. Management of infilling within the Retreat area, and control of redevelopment of old structures will also be an increasingly difficult challenge in the years ahead.

With the annexation of the Asilomar Dunes area in 1980, the City assumed new land use planning responsibilities. Nearly half of the residential parcels in this area are undeveloped. Their location, in a scenic coastal area, and on sand dunes supporting several rare and endangered plants, makes careful control of future development critical.

These land use planning issues are specifically addressed by the Coastal Act. The sections that follow provide more detailed background, and set forth policies that support and strengthen existing City regulations in these areas. Figure 4, the Coastal Zone Land Use Plan, supports the policies and illustrates the general kinds, locations and intensities of uses to be permitted within the City's coastal zone. The land use policies that follow and Land Use Plan Map are, with only limited exceptions, a direct reflection of existing development and present City regulations.

2. THE STATE OF NEW YORK

THE STATE OF NEW YORK, ss. I, the Clerk of the Senate, do hereby certify that the following is a true and correct copy of the report of the Committee on the Administration of the Government, as the same appears from the records of the Senate, and that the same has been read and approved by the Senate, and that the same is hereby published for the information of the people of this State.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the Senate, at Albany, this 1st day of January, 1901.

CLERK OF THE SENATE.

THE STATE OF NEW YORK, ss. I, the Clerk of the Senate, do hereby certify that the following is a true and correct copy of the report of the Committee on the Administration of the Government, as the same appears from the records of the Senate, and that the same has been read and approved by the Senate, and that the same is hereby published for the information of the people of this State.

3.1.1 Regulation of Development in Coastal Zone

1. All new development shall be consistent with the land use designations and other requirements of the certified Land Use Plan, including the certified Land Use map (Fig. 4). Residential densities shall not exceed those specified on the Land Use map, and may in specific instances be reduced by application of the Land Use Plan policies.

2. New buildings shall be limited to two stories (25 ft.) in height unless otherwise specified by this Plan. In Land Use Plan Areas I and III, the limit will vary but in no case shall it be more than three stories (40 ft.). Building height shall be measured as the distance above natural grade within the foundation perimeter, prior to grading or other development.

3. For all types of structural development, adequate parking spaces shall be provided, proportionate to expected use. Such parking shall generally be provided on-site, although off-site parking may be considered where necessary to save historic structures or where adequate assessments are made for provision of close-by off-site parking facilities. For the following classes of development, the minimum number of spaces shall be:

- a. For motels and bed-and-breakfast projects, one space per unit;
- b. For each family unit in a multi-unit residential structure, one and one-half spaces per unit for units of one or less bedrooms; two spaces per unit otherwise;
- c. For all other residential units, two spaces per unit; and,
- d. For restaurants, professional offices and commercial developments, one space per 300 square feet of floor area.

4. The scenic native forest within Asilomar Conference Grounds, along Asilomar Avenue, and within the abandoned railroad right-of-way, shall to the maximum feasible degree, be retained, consistent with the uses allowed by this Plan. Landscape trees which contribute to the scenic views elsewhere in the City's coastal zone shall be protected, or when necessary, replanted. All tree removal shall be in accordance with the City's existing tree protection requirements (City Ordinances Chapter 12.16, included as

1. All new development shall be consistent with the land use designations and other requirements of the Comprehensive Zoning Ordinance. The Ordinance shall be amended to require that all new development be consistent with the land use designations and other requirements of the Comprehensive Zoning Ordinance.

2. New development shall be located in the designated areas. The Ordinance shall be amended to require that all new development be located in the designated areas. The Ordinance shall be amended to require that all new development be located in the designated areas.

3. The City shall establish a process for reviewing and approving development. The City shall establish a process for reviewing and approving development. The City shall establish a process for reviewing and approving development.

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Appendix B).

5. This section shall be implemented through adoption of appropriate zoning ordinances, which will specify the procedures and standards for carrying out each chapter of this Plan, and will require that a coastal development permit be required for new development within the City's coastal zone jurisdiction.

3.1.2 Federal Lands

1. The Lighthouse Reservation area, shown as Area IV-B on the Land Use map, is owned by the U. S. Government. The Naval Reserve Center, Point Pinos Lighthouse and Coast Guard installation presently operate here. The balance of the Lighthouse Reservation is operated by the City for public park purposes, pursuant to a special agreement with the U. S. Coast Guard.

2. Federal agencies are not subject to the permit jurisdictions of either the city or the Coastal Commission, but are subject to the federal consistency process provided by the federal Coastal Zone Management Act of 1972 (CZMA). Non-federal development on these federal lands will be potentially subject to both the federal consistency process under CZMA, and the Coastal Commission's permit jurisdiction.

3.2 SPECIAL COMMUNITIES

3.2.1 Background

The portion of the Pacific Grove Retreat which is located in the coastal zone meets the definition of a "special community" under Section 30253 of the Coastal Act.

The unique architectural and visual character of the Retreat are due to its historic origins as a 19th century coastal Methodist retreat -- the only such relatively intact community remaining on the Pacific Coast.

An outstanding feature of the Pacific Grove Retreat is the number and concentration of late 19th and early 20th century structures that have survived. Over half of the 385 residential structures in the coastal zone portion of the Retreat are identified in the City's Historic Resources inventory. The area between Pacific Street and Grand Avenue is particularly rich in historic buildings.

1. This section shall be interpreted to mean that the provisions of this section shall not apply to any person who is not a resident of the State of California at the time of the filing of the petition for the election of a judge of the Superior Court of the State of California.

Section 10.1

2. The provisions of this section shall not apply to any person who is not a resident of the State of California at the time of the filing of the petition for the election of a judge of the Superior Court of the State of California.

3. The provisions of this section shall not apply to any person who is not a resident of the State of California at the time of the filing of the petition for the election of a judge of the Superior Court of the State of California.

Section 10.2

Section 10.2.1

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Current land use in the coastal zone portion of the Retreat is predominantly residential, with approximately 72% of the residential structures in single-family occupancy. Multiple dwelling units are concentrated near the commercial center on Lighthouse Avenue and along Ocean View Boulevard.

Interspersed among the streets of historic homes are several small parks -- Caledonia, Greenwood, Jewell, and Andy Jacobsen. The scale, vegetation and physical features of the parks make a distinctive contribution to the total composition of the Pacific Grove Retreat.

At Asilomar State Beach and Conference Grounds, historic architectural resources are found in the eleven buildings designed by pioneer California woman architect Julia Morgan. Asilomar, along with San Simeon, is considered one of the finest concentrations of Julia Morgan structures in California.

A more detailed discussion of special community issues is contained in Working Paper #2 on Development Issues (November 1980). Refer also to the City of Pacific Grove Historic Inventory (1978), on file at the City's Community Development Department, which lists the address, date of construction and the first owners of the historic structure.

3.2.2 Relevant Coastal Act Policies

Two Coastal Act policies address protection of special communities. Section 30253(5) requires that the unique characteristics of special communities and neighborhoods be protected and Section 30251 provides that scenic and visual qualities of coastal areas are a resource of public importance which deserve protection from incompatible new development.

3.2.3 Existing Policies and Regulations

Steps have been taken by the City to protect the Retreat. Among these are: the preparation of a Historic Resources Inventory, a Historic Preservation Plan, the requirement that all exterior modifications be reviewed by the Architectural Review Board, revised zoning for the Pacific Grove Retreat, formulation of Design Criteria, and control over demolition of historic structures. In addition, the City uses the Historic Building Code for improvements to older structures as required by State law.

With respect to natural features, the Pacific Grove General Plan recognizes the trees of Pacific Grove as "major natural resources." Ordinances regulating tree removal from public and private property are in place.

Although the Morgan structures are architecturally significant, they are not officially recognized or designated as California Registered Historical Landmarks. The Julia Morgan buildings at Asilomar and the land between them have been designated as a National Landmark District which is the highest level of recognition for a cultural resource in the United States. The State Public Resources Code (5024.5) requires that any proposed alteration of the buildings or surrounding area follow guidelines and review processes administered by the State Office of Historic Preservation.

The following policies on special communities extend and strengthen existing protective measures. The policies are intended to give explicit recognition to the Pacific Grove Retreat and the Morgan structures, to give clear status to the City's Design Criteria, to add further protection against demolition of historic buildings, and to promote a range of historic preservation methods.

3.2.4 General Policies

1. The Pacific Grove Retreat's unique characteristic and architectural heritage contribute to the aesthetic, social and economic well-being of the community, both for residents and visitors. The City shall encourage the protection, maintenance and enhancement of the unique historical, architectural, and visual characteristics of the Retreat.

2. All proposed development actions, including City public works projects, shall be consistent with maintaining the current scale and character of the Retreat.

3. Other historic and/or architecturally unique structures, such as the Julia Morgan structures at Asilomar State Park, shall be protected and maintained to the fullest extent possible.

3.2.5 Specific Policies

Pacific Grove Retreat

1. Rehabilitation, reconstruction, remodeling, or exterior modification of existing structures with historic or architectural significance shall relate to, or reconstruct the

lines of the original design as much as possible.

2. Design review shall be required through coastal development permit procedures in order to maintain historical continuity and visual harmony of new development within the Retreat area.

3. In order to protect landmark structures, unwarranted demolition will be avoided by implementing standards for demolition permits. In addition demolition permits should be treated as discretionary permits in order to strengthen City control. Potential landmark structures in the coastal zone of the Retreat include, but are not limited to, all structures constructed at least 60 years ago.

4. Local initiative, through a well-informed and committed citizenry, is an essential ingredient in achieving protection of historic resources. The City shall therefore continue its ongoing programs of citizen involvement in carrying out its historic preservation policies and programs.

5. In refining the list of desirable and adaptable trees for planting in the Retreat, the City will encourage native, drought resistant vegetation and species compatible with the scale and character of current vegetation.

Asilomar State Park

6. In order to preserve structures designed by Julia Morgan at Asilomar State Park, the City shall require design review prior to any proposed exterior alterations. Alterations shall relate to or reconstruct the lines of the original design to the maximum extent possible.

Pacific Grove Beach

7. The City will maintain the Pacific Grove Beach Tract as an architecturally unique neighborhood with a village-like setting.

3.2.6 Recommended Actions

1. The City should maintain and update the Historic Resources Inventory to provide a current description of the historic and visual character of the Retreat. The help of organizations such as the Heritage Society should be solicited.

2. The Pacific Grove Retreat Zone District should be revised in the coastal zone to limit the scale of permitted multiple dwellings in order to maintain the existing scale of residential structures within the Retreat.

3. The City should develop programs and techniques to assist property owners in maintenance of structures in the Retreat in good repair in order to retard physical deterioration. Possible approaches will include code enforcement, award programs, rehabilitation programs, and use of the State Historic Building Code.

4. The City should consider adoption of a specific and complete historic district ordinance for the Retreat area, including the designation of individual meritorious structures and procedures to prevent demolition of such structures to the maximum extent feasible.

5. The City should endeavor to carry out the Tree Management Program as proposed in the adopted Conservation Element of the General Plan.

6. The California State Department of Parks and Recreation should amend its General Development Plan for Asilomar State Park to explicitly recognize, maintain and preserve the Julia Morgan structures as a cultural resource of statewide significance. The City should cooperate with the Department in any research directed toward acquiring further historical information on the design and construction of the Morgan buildings, as well as original site plans and landscaping data.

1. The first thing I noticed when I stepped out of the car was the smell of the sea. It was a fresh, salty scent that I had never experienced before. The air was crisp and cool, a stark contrast to the hot, humid air of the city I had just left.

2. The second thing I noticed was the sound of the waves crashing against the shore. It was a rhythmic, soothing sound that seemed to wash over me, washing away all my worries and stresses. I had never heard such a beautiful sound before.

3. The third thing I noticed was the sight of the sun setting over the ocean. The sky was a brilliant orange, and the sun was a glowing orb of fire. The water was a deep blue, and the sand was a golden yellow. It was a sight that I had never seen before.

4. The fourth thing I noticed was the feeling of the sand under my feet. It was soft and warm, and it felt like I was walking on a cloud. I had never felt such a peaceful feeling before.

5. The fifth thing I noticed was the feeling of the sea breeze on my face. It was a refreshing, invigorating breeze that made me feel like I was breathing new life. I had never felt such a revitalizing feeling before.

3.3 PRIORITY USES: RECREATION, VISITOR-SERVING FACILITIES AND COASTAL-DEPENDENT USES

3.3.1 Background

Priority uses, as defined by the Coastal Act, include recreation and visitor-serving and coastal-dependent uses. Coastal-dependent uses in Pacific Grove include the Hopkins Marine Lab facilities at Point Cabrillo, Coast Guard and Naval facilities at Pt. Pinos, and the Monterey Bay Aquarium (partially within City limits).

Priority uses that provide for recreation and visitor-serving opportunities for both Pacific Grove residents and visitors are numerous within the City's coastal zone, and are available to a broad economic range of users. The shoreline parks, trail network and parking areas make it possible for pedestrians and motorists to enjoy nearly the entire length of the coastal zone, from Cannery Row to the southern limits of Asilomar State Beach. At several points, direct access to beaches is available by stairways or paths. The abundant life of Monterey Bay's waters attracts numerous skin divers; the Monterey Bay Aquarium provides many other visitors to the City's coastal zone the opportunity to observe much of the same marine life.

Development of the Southern Pacific Railroad right-of-way as a continuous trail from the Aquarium area to Lover's Point, and designation of a continuous bike route along Ocean View Boulevard has been recently completed. The portion of the Southern Pacific right-of-way which extends from Lover's Point to the boundary of Del Monte Forest is also being considered for acquisition and development of a recreational trail. An interpretive signing program at popular visitor destinations within Pacific Grove's coastal zone could further enhance the visitor's shoreline experience.

Concentrations of visitor-oriented commercial facilities within the coastal zone are located at Lover's Point and near Cannery Row. In addition to overnight accommodations and dining facilities available at the Asilomar Conference Grounds, there are four privately-operated motels, and a half dozen restaurants. Other existing recreation and visitor-serving facilities include the municipal golf course and the Lighthouse Museum at Lighthouse Reservation.

Working Paper #1 on Access and Natural Resources (October 1980) and the section on existing recreational resources and visitor-serving facilities in the LCP Special Committee's Proposed Local Coastal Plan (June 1984) provide a more detailed discussion of recreation and visitor-serving and coastal-dependent uses.

1.1.1. Introduction

During the past, as defined by the Bureau and the public, the Bureau has been working to develop the public lands. The Bureau has been working to develop the public lands in a way that is consistent with the public interest. The Bureau has been working to develop the public lands in a way that is consistent with the public interest.

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3.3.2 Relevant Coastal Act Policies

Coastal Act policies relating to priority uses require that coastal zone waters and oceanfront land suitable for recreational use be protected for recreational use and development, that visitor-serving and commercial recreational facilities are given priority on suitable private lands over private residential, general industrial, or general commercial development (but not over agriculture or coastal-dependent industry), and that upland areas necessary to support coastal recreational uses be reserved, where feasible, for such uses (Sections 30220-30223). Coastal-dependent uses are further given preference by Section 30254. The Coastal Act also requires that lower cost visitor and recreational facilities be protected, encouraged and, where feasible, provided, and gives preference to development providing public recreational opportunities (Section 30213). Additional policies address the location and amount of recreation/public facilities development to mitigate against the impacts of overcrowding or overuse (Sections 30212.5, 30250(c) and 30252(6)).

3.3.3 Existing Policies and Regulations

Existing priority land uses within Pacific Grove's coastal zone are designated for such uses by the City's General Plan, with a few exceptions. Visitor accommodations at Jewell and Asilomar Avenues and visitor accommodations and the adjacent restaurant on Sunset Drive across from the Asilomar Conference Grounds are designated, respectively, medium residential and general commercial. The coastal-dependent educational uses at the Hopkins Marine Lab property are designated for visitor-commercial uses. The privately owned lands seaward of Sunset Drive (near Lighthouse Avenue) are designated "rural" residential in the General Plan, but are shown in the 1975 Open Space and Conservation Plan as "unincorporated lands recommended for open-space."

The policies that follow supplement and strengthen existing policies and regulations by providing for:

- o Reservation of specific areas for recreational uses, visitor accommodations, visitor-commercial and coastal-dependent uses;
- o Development of implementation procedures to give priority to visitor-oriented uses over general commercial uses; and
- o Improved and new visitor-serving facilities (parking areas, bike route and parking racks, visitor-information /interpretive sign program, and railroad right-of-way recreational trail).

- o The City recognizes the desirability of a proposed extension to the recreation trail along the abandoned Southern Pacific right-of-way. The City will work jointly with the Monterey Peninsula Park District to pursue this project.

3.3.4 General Policies

1. Protection of sensitive habitats, natural landforms and scenic resources shall be major considerations in planning for recreation and visitor-serving facilities.

2. The following coastal zone areas or facilities shall be reserved for visitor-serving uses and are designated "V-A" (Visitor Accommodations) or "V-C" (Visitor Commercial) on the LCP Land Use Plan map:

- All existing visitor accommodations and restaurants,
- Vacant parcel adjacent to Chase Park,
- Areas inland of Ocean View Boulevard between Dewey Avenue and the City's eastern limits.

Principal permitted uses for areas designated "Visitor Accommodations" include:

- a) overnight lodging facilities and limited appurtenant public restaurants and shops where appropriate.

Principal permitted uses for areas reserved for "Visitor-Commercial" facilities include:

- a) Visitor accommodations,
- b) Food and drink establishments,
- c) Visitor-oriented retail commercial activities such as: sporting and photographic equipment sales and rentals, gift and curio shops, art galleries, craft and antique sales, grocery stores.
- d) Public parking facilities

Secondary or conditional uses for this land use designation include:

- a) Public parking facility in conjunction with residential use not to exceed 20 units per acre (or up to 30 units per acre if density bonus is granted by City to provide housing for lower income households), if at least one public parking space per housing unit is provided. Such public parking shall be dedicated to visitor use only, shall be conspicuously signed, and shall be rigorously enforced. This public parking requirement is in addition to any parking requirements that would be

The Commission has been established as a permanent body to monitor the progress of the implementation of the recommendations of the Commission of Enquiry into the activities of the Irish Republican Army (IRA) and the Provisional Irish Republican Army (PIRA) in the Republic of Ireland and Northern Ireland.

1. PURPOSE AND SCOPE

1.1 The purpose of the Commission is to monitor the progress of the implementation of the recommendations of the Commission of Enquiry into the activities of the IRA and the PIRA in the Republic of Ireland and Northern Ireland.

1.2 The Commission shall have the right to request information from any person or body who is or has been involved in the activities of the IRA or the PIRA in the Republic of Ireland or Northern Ireland.

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ordinarily required for such housing units.

3. The following coastal zone areas or facilities shall be reserved for recreation uses and are designated "OS-R" (Open Space Recreational) on the LCP Land Use Plan map:

- All lands north of Ocean View Boulevard (except Hopkins Marine Station and Monterey Bay Aquarium which are designated Open Space-Institutional) and west of Sunset Drive (with the exception of several residential parcels west of Jewell Avenue which shall retain a residential designation),
- All city parks,
- Golf course at Lighthouse Reservation,
- Abandoned railroad right-of-way between Ocean View Boulevard and City Limits at Spanish Bay (except for easterly spur between Crocker Avenue and Sunset Drive; this easterly spur is an area of deferred certification).

Use of these open space areas shall be limited to low-intensity day-use recreational and educational activities such as walking, nature study, photography and scenic viewing, and access to the water for diving, boating, fishing, and swimming. Within the municipal golf course, continued use as a public golfing facility will be permitted. Bicycling shall be allowed on designated bike lanes, bike paths, and areas open to other vehicles.

4. The Asilomar Conference Grounds, the shorefront lands east of 3rd Street, and existing City, Navy and Coast Guard structural facilities at Lighthouse Reservation are designated "OS-I" (Open Space-Institutional) on the LCP plan map. Principal permitted uses in these areas include the following:

a) Asilomar Conference Grounds: overnight accommodations, conference facilities, and low-intensity coastal-related recreation to the extent compatible with maximum protection of designated natural and biotic resource areas.

b) Hopkins Marine Station: coastal-dependent marine research and educational activities, aquaculture, and coastal-dependent recreation that is compatible with maintenance of coastal-dependent scientific and educational uses.

c) Monterey Bay Aquarium: coastal-dependent marine research, educational and recreational activities and facilities, and aquaculture.

d) Lighthouse Reservation: existing coastal-related institutional and military structures, and low-intensity

coastal-related recreation compatible with protection of designated natural and biotic resources, including Crespi Pond, sand dunes and existing stands of Monterey pines.

3.3.5 Specific Policies

1. Standards for new development on visitor serving parcels in the Asilomar dunes area designated for Visitor Accommodations shall be:

a) Maximum density for motel or hotel development shall be one unit per 2500 square feet of land.

b) Aggregate building coverage for parcels designated for visitor accommodations shall not exceed 50%.

c) Maximum height limits for parcels designated for visitor-serving uses shall not exceed 25 feet nor two stories above grade and 15 feet for accessory structures. The height shall be one story above grade and not more than 18 feet where the subject property or any portion thereof is zoned R-3-M (Multi-Family Residential-Motel-Adult Community district) and is within 200 feet of any portion of any property zoned R-1, R-H, or R-2 (Single-Family Dwelling, Duplex districts).

d) A minimum setback of 20 feet shall be required for parcels designated for visitor serving uses if the subject property abuts R-1, R-H, or R-2 property, including streets abutting same. The setback shall be 10 feet for property abutting commercial or other R-3-M developments or Districts.

e) All visitor accommodation units shall be for transient use only. Occupancy of such units shall be for a period not to exceed 30 days.

2. For all other areas designated Visitor Accommodation, standards for new development shall be the same as in Section 3.3.5.1(a), (b), and (e) above. Height limits shall be as specified in Section 3.1.1.2.

3. Conditions for new development on parcels designated for Visitor Commercial uses shall be determined by the City Planning Commission at the time a use permit is considered. At the minimum, such conditions shall apply the same density, site coverage, height, parking, setback and occupancy criteria as are applied to parcels designated for Visitor Accommodations. Special requirements for provision of public parking shall apply as specified in Section 3.3.4.2 above, if uses other than visitor-serving development are approved for the site.

3.4 ENVIRONMENTALLY SENSITIVE HABITATS AND SCENIC AREAS

3.4.1 Background

The Asilomar Dunes residential area, bounded by Lighthouse Avenue, Asilomar Avenue, and Asilomar State Beach/Conference Grounds, is a highly scenic area of public importance, as well as the location of sand dunes supporting rare and endangered plants. These resource values are described more fully in Sections 2.3 and 2.5.7 of this plan. The area, which was annexed by the City in 1980, was previously subdivided into residential parcels. Approximately two thirds of the existing parcels are developed, and one third remains vacant.

Issues affecting land use planning in this area therefore relate to protection of both the existing scenic qualities of the area and the sand dune habitat of the rare and endangered plants. The retention of these resources will be affected by the siting and design of new homes and related facilities, and also by the total amount of additional residential development that is permitted.

Environmentally sensitive habitats are located in other areas of the City's coastal zone as well. These include tidepools, riparian and sand dune habitats within Asilomar State Beach/Conference Grounds; the Crespi Pond wetland, tidepools and dune habitats within the Lighthouse Reservation; the City's tidelands, included in the seaward portion of the Pacific Grove Marine Gardens Park; and any areas which may be determined as essential habitat for Monarch or Smith's blue butterflies. See applicable development policies in Sections 2.2 and 2.3 of this Plan.

3.4.2 Relevant Coastal Act Policies

Coastal Act section 30251 requires that the scenic and visual qualities of coastal areas shall be considered and protected as a resource of public importance. Permitted development shall be sited and designed to protect views to and along the ocean and scenic coastal areas, to minimize the alteration of natural land forms, to be visually compatible with the character of surrounding areas, and, where feasible, to restore and enhance visual quality in visually degraded areas. New development in highly scenic areas such as those designated in the California Coastline Preservation and Recreation Plan prepared by the Department of Parks and Recreation and by local government shall be subordinate to the character of its setting.

Section 30240(a) and (b) addresses environmentally sensitive habitat areas by requiring that they be protected against any significant disruption of habitat values, and only uses

dependent on such resources shall be allowed within such areas. Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade such areas, and shall be compatible with the continuance of such habitat areas.

3.4.3 Existing Policies and Regulations

Land use regulations presently in effect for the Asilomar Dunes area permit residential uses with a minimum parcel size of 20,000 square feet. The City controls the siting of all improvements on the property and controls maximum lot coverage. Lot coverage of up to 40% of the parcel is permitted by current zoning. In addition, the City can impose mandatory conditions pertaining to resource protection. Easements have been requested by the City, in some instances, to help protect dune and plant habitat.

Development of a single residence on each existing vacant parcel will result in approximately 34 additional units. If eligible properties are further subdivided at current zoning minimum, an additional 25 to 30 residential lots could result. There are about 70 residences in the area now. Future development at half-acre densities can be expected to roughly double the existing number of residences in the area. If auxiliary units, such as guest houses, or mother-in-law units are permitted, then total buildout can be expected to be much higher.

The policies that follow support residential development in Asilomar Dunes. Lot coverage is reduced for new development, and minimum lot sizes are increased in some areas in order to control overall development to a level consistent with Coastal Act requirements concerning protection of scenic resources and environmentally sensitive habitats.

3.4.4 General Policies

1. All new development in the Asilomar Dunes area shall be controlled as necessary to ensure protection of coastal scenic values and maximum possible preservation of sand dunes and the habitat of rare and endangered plants.

2. The Asilomar Dunes neighborhood shall be maintained as a low density residential area. The principal permitted use is single-family residences. In order to maintain low densities necessary to protect coastal scenic and habitat resources, auxiliary housing units, or guest units shall not be permitted. Freestanding permanent commercial signs are prohibited in this area.

3. New subdivisions which create commitment to development within, or immediately adjacent to environmentally sensitive habitat areas shall be allowed only at densities compatible with protection and maintenance of these resources. New subdivisions may be approved only where potential adverse impacts to environmentally sensitive habitats can be prevented. No residential subdivision shall be allowed unless it is first demonstrated that, for each new residential lot, normal residential development, including driveway and utility connections, is feasible without damage to any environmentally sensitive habitat.

Contiguous areas of undisturbed land in open space uses shall be maintained wherever possible to protect environmentally sensitive habitat areas and associated wildlife values. To this end, development of parcels adjacent to environmentally sensitive habitat areas shall be planned to keep development intensity immediately adjacent to the sensitive habitats as low as possible, consistent with other planning criteria (e.g., drainage design, roadway design, and public safety).

3.4.5 Specific Policies

1. Minimum parcel size for new land divisions are one-half acre properties fronting on Asilomar Avenue north of Pico Avenue, and one acre for other areas of Asilomar Dunes or lots of record.

2. Maximum aggregate lot coverage for new development shall be 15% of the total lot area. For purposes of calculating lot coverage under this policy, residential buildings, driveways, patios, decks (except decks designed not to interfere with passage of water and light to dune surface below) and any other features which eliminate potential native plant habitat will be counted. However, a driveway area up to 12 feet in width the length of the front setback shall not be considered as coverage if surfaced by a material approved by the Site Plan Review Committee. An additional 5% may be used for immediate outdoor living space, if left in a natural condition, or landscaped so as to avoid impervious surfaces, and need not be included in the conservation easement required by Section 2.3.5.1(e). Buried features, such as septic systems and utility connections which are consistent with the restoration and maintenance of native plant habitats, need not be counted as coverage.

The siting of each new development and the expected area of disturbance around each residence shall be individually reviewed by the Site Plan Review Committee. Such review shall duly consider the minimization of dune destabilization and disturbance to endangered plants and their habitat.

In special cases, up to 20% aggregate lot coverage may be allowed as a conditional use if the City specifically finds that:

a) An offsetting area of native dune plant habitat will be restored and maintained adjacent to the site, such that the total area which will be preserved, restored and permanently maintained under conservation easement or similar enforceable legal instrument, as provided in Section 2.3.5.1, is equal to at least 80% of the total area of applicant's lot; and,

b) the additional site coverage is essential for protecting public views (i.e., by maximizing front setback in the case of parcels facing Sunset Drive), or for avoiding hardships in the case of existing parcels of one-half acre or less which would otherwise suffer in comparison to adjacent similarly-sized developed parcels.

3. In the event a dwelling is destroyed by fire or other natural causes, the dwelling would be allowed to be rebuilt as it existed prior to the destruction if less than 75% were destroyed.

4. It is the City's objective that vacant private parcels west of Jewell Avenue on the seaward side of Sunset Drive be permanently maintained as open space in recognition of the area's dune habitat values, scenic qualities, and in order to preserve public visual access to the ocean.

Permanent open space may be achieved through dedication of scenic conservation easements by the property owners, or by acquisition of fee title or development rights by the City, another governmental entity, or by a private foundation. The City encourages assistance from the State or suitable foundation in the acquisition of these important parcels.

In the event of an application for a coastal development permit to construct residences or other structures on these vacant parcels, the City shall seek funding assistance or other remedies to permanently establish the parcels as public open space. If after a reasonable time period no remedy has been found, the City shall consider the development application under the standards established in Sections 3.4.4 and 3.4.5 for areas inland of Sunset Drive, and shall also require other measures as necessary to avoid impacts to the scenic character of the area.

5. In order to preserve scenic values, remnant native pine forest, and environmentally sensitive dune habitat on private parcels along the seaward side of Asilomar Avenue, from the vicinity of the Pico Avenue intersection southwards to the Asilomar Conference Grounds, the City will support

preservation efforts on the remaining vacant parcels in this area in the same manner as provided for the vacant parcels seaward of Sunset Drive.

3.4.6 Recommended Actions

1. The City shall adopt implementing ordinances necessary to carry out the policies of this section.
2. Seek funds to purchase vacant parcels identified in Sections 3.4.5.4 and 3.4.5.5, above, for preservation as permanent open space.

3.5 OTHER COASTAL ZONE USES

3.5.1 Policies

1. The abandoned railroad right-of-way between Ocean View Boulevard and the easterly City Limits at Cannery Row is designated as "Recreational Trail." The principal permitted use in this area is the Monterey Peninsula Recreation Trail, which supports both a paved bicycle path and parallel pedestrian path.
2. The locations and development intensities for residential and mobile home park uses shall be as shown on the land use map (Land Use Plan Figure 4), subject to the limitations specified in the Land Use Plan text for the Asilomar Dunes area and the Pacific Grove Retreat neighborhood. Principal permitted uses include single family residences, scenic and natural habitat reserves in the Asilomar Dunes area; mobile homes within the Mobile Home Park Special Zone; and elsewhere, single family homes, multi-family units, guest units, auxiliary (senior) housing units, and bed-and-breakfast facilities, at the prescribed densities.
3. The Professional land use category is limited to a single block of the City's coastal zone. The principal permitted use shall be professional office space consistent with existing development patterns. Provision of public parking facilities shall also be considered a permitted use in this area.
4. The Commercial land use category within the City's coastal zone is limited to the area between the two branches of the abandoned railroad right-of-way at Sunset Drive. The principal permitted use shall be retail commercial use consistent with existing development patterns. Provision of public parking facilities shall also be considered a permitted use in this area.

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4.0 PUBLIC FACILITIES

4.1 WATER SUPPLY

4.1.1 Background

Pacific Grove's potable water is supplied by California-American Water Company (Cal/Am), a privately-owned utility. The water supply available to serve new development is subject to regulation by the Monterey Peninsula Water Management District (MPWMD). In 1980, the MPWMD adopted an allocation system assuring each municipal unit within the Cal/Am service area its "fair share" of Cal/Am water. The allocation was revised in 1981 and 1987. The latest amendment to the allocation, made in January 1987, was the result of an audit of water users by Cal/Am Water Co. which showed that some Pacific Grove water users were being counted as part of another jurisdiction.

Cal/Am system capacity (water available for distribution) is presently estimated to be 20,000 acre-feet/year (AFY). Under the current MPWMD allocation system, 18,600 acre-feet are allocated annually, of which Pacific Grove is entitled to 2,359.38 acre-feet. The City's current (March 1986-February 1987) water use according to metered sales is 2,121.05 acre-feet. The additional water supply available to the City under the present MPWMD allocation system on March 1, 1987 was therefore approximately 179.54 acre-feet (2,359.38 acre-feet total allocation less 2121.05 acre-feet used + 58.79 acre-feet projected demand which includes current use plus committed water.)

The City of Pacific Grove, in response to a worsening water supply situation, adopted a City-wide allocation in April, 1986 designating a water allocation to five broad categories of land use as shown in the following table.

TABLE I

CITY OF PACIFIC GROVE ALLOCATION OF POTABLE WATER
March 1, 1987

Category of Use	Water Allocation	Water Committed	Water Available
Single-family Residential	50.00	14.66	35.34
Multi-family Residential *	44.00	14.81	29.19
Commercial and Industrial	29.27	27.21	2.06
Public Authority	16.23	1.00	15.23
Unallocated Reserve	15.50	0.00	15.50
Totals	155.00	57.68	97.32

* Includes duplex, three or more units, and auxiliary units.

The City's internal water allocation is based on the availability of 155 acre-feet. Monthly water use figures provided to Pacific Grove since last October by Cal-Am Water Co. and the MPWMD show that water usage fluctuates monthly throughout the year.

Table 2, prepared in April , 1981 by the Coastal Commission staff, shows estimated 1980 water usage within the Coastal Zone, as well as usage projected for "buildout" under this plan. The figures for the amount of projected water usage increases which would occur in areas with LCP "priority use" designations have been adjusted to reflect the impact of the adoption of Initiative Measure "C" adopted in 1986.

To ensure that unanticipated water demands will not preclude coastal priority uses, LCP policy support is needed for mandatory conservation, and reduction of development to avoid excessive water use. For example, significant amounts of water are presently used for irrigation of open space areas (parks, golf course). One way in which it may be possible to reduce this usage would be to capture storm water for irrigation purposes, as was done during the 1977-78 drought.

For a more detailed discussion on Pacific Grove's water supply, see Working Paper #2 on Development Issues (November 1980) and the City's files on the development of the April, 1986 city-wide water allocation.

TABLE 2

PACIFIC GROVE COASTAL ZONE CURRENT AND PROJECTED WATER USAGE
CONSUMPTION IN ACRE-FEET/YEAR (AFY)

PLANNING AREA	1980 USAGE	BUILD-OUT USAGE	TOTAL INCREASE	PRIORITY DISTRICTS' INCREASE
I	30.9	87.4	56.5	12.5
II	165.6	179.4	13.8	0.0
III	79.5	87.6	8.1	4.6
IV	56.7	56.7	0	0.0
V	N/A	N/A	N/A	N/A
VI	118.9	176.5	57.6	6.3
TOTALS	451.6	587.6	136.0	23.4

Table 2 shows that of the 136.0 AFY projected demand for the City's coastal zone development, 23.4 AFY would be needed for development in areas designated in the LCP for Coastal Act priority uses. This 23.4 AFY, which is primarily for visitor commercial uses, exceed by 21.3 acre-feet the remaining water allocation available for all commercial uses within the City under the City's allocation system as of March 1, 1987.

4.1.2 Relevant Coastal Act Policies

Coastal Act Section 30254 limits expansion of new public works facilities to those improvements necessary to accommodate new development or uses permitted by the Coastal Act. Where existing or planned public works can accommodate only a limited amount of new development, priority is given to recreation, coastal-dependent land uses, essential public services, and basic industries vital to the economic health of the region, state, or nation.

4.1.3 Existing Policies and Regulations

The City's General Plan Conservation Element (1973) notes that "recent studies have concluded that residents of Pacific Grove cannot assume a complacent attitude toward the water resources of the area," and recommends that the feasibility of the use of reclaimed water for various uses (including irrigation of various public properties such as the Municipal Golf Course) be pursued by the City and other appropriate jurisdictions.

Policies are needed to insure that a portion of the water available to the City for new development is reserved for priority uses within the coastal zone (public recreation, coastal-related commercial recreation, coastal-related visitor-serving facilities, coastal-dependent industry). Non-priority uses (residential, general commercial) within the coastal zone would then compete with the uses outside the coastal zone for the unreserved water available to the City for development.

The policies that follow relate to the protection of available water supply and provide for:

- o Reservation of a portion of the City's available water supply for Coastal Act priority use development;
- o Permitting new development only when its water demand is consistent with available supply;
- o Requiring low-water requirement/drought resistant landscaping; and
- o Using reclaimed wastewater and captured runoff for irrigation where feasible.
- o Native and/or drought resistant plants are to be planted in new development projects in order to conserve water.

4.1.4 General Policies

1. To the extent that water resources permit, the City shall reserve from its allotted water supply a sufficient quantity to accommodate coastal priority uses designated by this plan. This allocation shall be established as part of the LCP Implementation Program and shall include considerations of constrained and unconstrained water demand taking into account sources and timing of new water supply as well as the City's overall land use and economic policies.

The short-term (constrained development) allocation for the Coastal Zone is defined in the following table:

TABLE 3

PACIFIC GROVE COASTAL SHORT-TERM PROJECTED WATER USAGE
CONSUMPTION IN ACRE-FEET/YEAR (AFY)

<u>PLANNING AREA</u>	<u>WATER ALLOCATED FOR PRIORITY USES IN ACRE-FEET</u>
I	0.25
II	0.0
III	0.25
IV	0.0
V	---
VI	0.50
TOTALS	1.0 AFY

The amount of water allocated in Table 3 will provide for a minimal expansion of visitor serving commercial uses.

The following table defines the unconstrained water allocation for coastal priority uses.

TABLE 4

PACIFIC GROVE COASTAL UNCONSTRAINED PROJECTED WATER USAGE
CONSUMPTION IN ACRE-FEET/YEAR (AFY)

<u>PLANNING AREA</u>	<u>WATER ALLOCATED FOR PRIORITY USES IN ACRE-FEET</u>
I	12.5
II	0.0
III	4.6
IV	0.0
V	---
VI	6.3
TOTALS	23.4 AFY

4.1.1 General Policies

1. To the extent that water resources are available, the City shall encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes. The City shall encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes. The City shall encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.

The water-use policy is defined as the following:

Table 1

Table 1: Water Use Policy - General Policies

Category	Policy
Domestic	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Commercial	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Industrial	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Agricultural	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Recreational	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.

The water-use policy is defined as the following:

Table 2

Table 2: Water Use Policy - General Policies

Category	Policy
Domestic	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Commercial	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Industrial	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Agricultural	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.
Recreational	Encourage the use of water for all purposes, including domestic, commercial, industrial, agricultural, and recreational purposes.

When the allocation for a particular planning area is exhausted, no additional development which would increase water use shall be approved in that planning area. Exceptions will be allowed for coastal priority uses when, by transferring water allocations from other coastal zone planning areas, sufficient water can be found to support such development. If increased allocations are made available to the coastal zone through the operation of conservation measures or other means, such increased water supplies shall be made available in the same proportions as provided in Table 4.

2. The City will continue to implement water conservation requirement, including the use of low flow fixtures and drought resistant landscaping.

3. The City shall encourage the use of and, where feasible, maximize sources for reclaimed wastewater and captured runoff for open-space irrigation.

4.1.5 Recommended Actions

1. To ensure that the demands of new development do not exceed the City's allocation, the City shall continue to participate in a water monitoring program to gauge the water use of new development in cooperation with the MPWMD, as well as district-wide water conservation planning activities.

4.2 CIRCULATION

4.2.1 Background

The City's principal traffic circulation system within the coastal zone includes Ocean View Boulevard and Sunset Drive as a continuous two-lane scenic drive, and portions of the City's major thoroughfares: Central Avenue and Highway 68. Asilomar Avenue also provides north-south access to the State Conference Grounds and Point Pinos. With the exception of Central Avenue, these roads are generally adequate to carry normal increases in traffic through 1990.

Non-automobile circulation within the City's coastal zone is provided by Monterey Peninsula Transit bus line 1 and 2 (Asilomar and Lover's Point). A recreational trail has been developed on the abandoned Southern Pacific Railroad right-of-way from the Monterey Bay Aquarium to Lover's Point. Purchase of the remaining abandoned Southern Pacific right-of-way has been suggested for open space use.

4.2.2 Relevant Coastal Act Policies

Coastal Act Section 30252 provides that new development contribute to the improvement of coastal access by facilitating transit, providing non-automobile circulation, providing adequate parking, and correlating residential development with the provision of on-site recreational facilities and adequate local public parks. Section 30254 limits expansion of new public works facilities to those improvements necessary to accommodate new development or uses permitted by the Coastal Act.

4.2.3 Existing City Policies

The General Plan's Circulation and Scenic Highway Element (January 1973) supports the present pattern of traffic circulation. The Ocean View Boulevard/Sunset Drive two-lane alignment is maintained to protect adjacent park lands, retain the scenic character, avoid the need to acquire right-of-way, and reduce traffic safety problems. While some redesign to improve pedestrian and bicycle safety may be sought, a separate parallel recreational trail has been proposed for regional uses by the Monterey Regional Park District. No major road improvements in the City's coastal zone are proposed. Signalization and other traffic improvements may become necessary at certain intersections as additional development takes place. The General Plan calls for such improvements to be provided by the adjacent development.

4.2.4 General Policies

1. New development and circulation improvements within the City's coastal zone shall be consistent with the provisions of Coastal Act Sections 30252 and 30254.
2. The City shall enhance access to its shoreline, while maintaining the coastal zone's unique character, by reducing the impact of the automobile. This will be accomplished, in part, by encouraging use of the bus system lines within the coastal zone, and by providing non-vehicular coastal access opportunities in the form of pedestrian/bicycle trails.

4.2.5 Specific Policies

1. Asilomar Avenue shall remain a city thoroughfare providing access to Asilomar Conference Grounds and an alternate coastal access route between Highway 68 and Ocean View Boulevard.
2. New developments in the coastal zone shall include adequate off-street parking to minimize the disruption of significant coastal access routes.
3. In coordination with the U.S. Coast Guard, the City shall improve parking pull-outs along Ocean View Boulevard west of Asilomar Avenue, including restoration and protection of "edge" areas, consistent with protection of sensitive habitats. Preparation of the Coastal Parks Plan shall include an investigation of means to maximize safety of pedestrians and bicyclists.
4. The designation of a continuous bicycle route along Ocean View Boulevard and Sunset Drive, extending from the existing bike route sign at Eardley Avenue and Ocean View Boulevard to the south end of Asilomar State Beach, will be retained, and extended to the Seventeen Mile Drive intersection.
5. New development at popular visitor destinations shall be required to provide bicycle racks to encourage bicycle users.

PUBLIC SHORELINE ACCESS

4.2.6 Recommended Actions

1. Intersection improvements at Ocean View/First, and Sunset/Asilomar necessary to improve traffic flow and coastal access should be implemented as funding is available.
2. Unmet transit service should be increased where possible as a means of providing access for residents without automobiles, and as a means of increasing the efficient use of coastal access roads.
3. Appropriate signing should be considered for popular visitor destinations and access points in conjunction with other sign programs under coastal access and habitat protection policies.
4. The City shall continue to pursue acquisition and development of the Southern Pacific railroad right-of-way (from Lover's Point to the Del Monte Forest Boundary) as a recreational trail/open space use. To insure continuity of Monterey Peninsula coastal zone access/recreational development, formulation of development standards should be coordinated with the City of Monterey and Monterey County access planning for the Cannery Row/Fisherman's Wharf and Spanish Bay areas. Alternate routes in the Monarch Pines mobile home park area should be determined and safe and defined access points to that route developed, minimizing impacts on adjacent land uses.

5. PUBLIC SHORELINE ACCESS

5.1 BACKGROUND

Public access is one of the major goals of the Coastal Act. Section 30500 states that "each local coastal program ... shall contain a specific public access component to assure that maximum public access to the coast and public recreation is provided." This chapter focuses on opportunities to preserve, provide, and enhance public access to the unique and diverse features of the City's shoreline.

Several terms are used throughout this chapter and are defined below:

1. Shoreline Access is the provision of pedestrian access from a public thoroughfare to and along the shoreline.
2. Lateral Accessway is an area of land providing public access along the water's edge. Lateral accessways should be used for public pass and repass, passive recreational use, or as otherwise found appropriate in a certified LUP. Lateral accessways can be on a beach, where contact with the water's edge is possible, or on a bluff, where only visual access is possible, or at the rear (water side) of buildings adjacent to the water's edge.
3. Vertical Accessway is an area of land providing a connection between the first public road, trail, or use area nearest the sea and the publicly-owned tidelands or established lateral accessway. A vertical accessway should be used for public pass and repass, passive recreational use or as otherwise found appropriate in a certified LUP.

The following discussion describes the major lateral and vertical access areas, and areas providing visual access to coastal waters. Key features described are shown on Figure 5.

AREA I: POINT CABRILLO

While the City owns the immediate shoreline within this area, fencing of the Stanford University property (Hopkins Marine Station) to keep the public separated from shoreline

THE HISTORY OF THE

1. INTRODUCTION

The history of the world is a long and complex one, spanning thousands of years and encompassing a wide range of cultures, societies, and events. It is a story of human progress, struggle, and achievement, shaped by the actions of individuals and the forces of nature. The study of history allows us to understand the world we live in and the challenges we face, providing us with valuable insights into the human condition.

History is not just a collection of facts and dates, but a narrative that connects the past to the present. It is a story that evolves as we discover new information and gain a deeper understanding of the world. The study of history is a continuous process, one that never truly ends.

One of the most important aspects of history is the study of the human mind. We seek to understand the motivations and actions of individuals, as well as the collective behavior of societies. This allows us to identify patterns and trends, and to make predictions about the future.

History is also a story of power and conflict. It is a tale of empires rising and falling, of wars fought and peace made. The study of history allows us to understand the causes and consequences of these events, and to learn from the mistakes of the past. It is a story that teaches us the value of peace and the importance of justice.

History is a story of human achievement. It is a tale of great leaders, of brilliant minds, and of extraordinary feats. The study of history allows us to learn from the successes of the past, and to strive for a better future. It is a story that inspires us to reach for the stars and to make a difference in the world.

History is a story of the human experience. It is a tale of love, loss, and hope. The study of history allows us to understand the joys and sorrows of life, and to find meaning in our existence. It is a story that reminds us of our place in the world and of the legacy we leave behind.

2. THE HISTORY OF THE WORLD

The history of the world is a long and complex one, spanning thousands of years and encompassing a wide range of cultures, societies, and events. It is a story of human progress, struggle, and achievement, shaped by the actions of individuals and the forces of nature. The study of history allows us to understand the world we live in and the challenges we face, providing us with valuable insights into the human condition.

research activities has eliminated public access to this area's three beaches. Vertical access to the shoreline at the west end of the Stanford property is provided by an easement required by the City in connection with resubdivision of a portion of the Stanford property. It is connected to Ocean View Boulevard via a 10 ft. wide strip which has been deeded to the City from Southern Pacific.

Pedestrian use of the recently acquired and improved Southern Pacific Railroad right-of-way, north of Ocean View Boulevard, is continuous and constitutes a major lateral access facility. Negotiations are continuing to acquire the remaining section of right-of-way with all of the right-of-way through the golf course and cemetery acquired for use by the course and cemetery operations. The balance of the right-of-way from Lighthouse to Sunset would be acquired for open space and an informal trail.

Signs directing visitors to the shoreline are located at the 1st Street/Central Avenue intersection, and the Ocean View Boulevard/Eardley Avenue intersection. A "bike route" sign is located on the north side of Ocean View, at the foot of Eardley; this is one of two bike route signs within the Pacific Grove coastal zone.

A parking lot between Sloat and Central Avenues, connected by a pedestrian bridge to the American Tin Cannery, provides parking for that development. Ten striped parallel spaces on the south side of Ocean View Boulevard provide additional parking. Street parking is available throughout the area. Unobstructed bay views are available at the inland coastal zone boundary along Central Avenue at 1st Street and Eardley Avenue.

AREA II: PACIFIC GROVE RETREAT

There are no formal or designated accessways in this area, but a path network over the blufftop Shoreline Park provides continuous pedestrian access between Area I and Area III. Vertical access to a pocket beaches is available by descending steep paths or by climbing over riprap. Access on the blufftop and headlands and to the beaches is unmanaged. Concerns for user safety deserve attention.

The pedestrian path on the old railroad right-of-way is used along its entire stretch through this area. Access to the path is available through Berwick Park and, near 13th Street. Parking along either side of Ocean View Boulevard is available throughout Area II.

From Central Avenue there are clear bay views along many of the local streets. The view down Grand Avenue of the rocks at Lover's Point is especially impressive.

Along Ocean View Boulevard, continuous views of the bay are available. The undeveloped bluffs and headlands afford fine views of Lover's Point and Monterey.

AREA III: LOVER'S POINT

The Lover's Point area contains three beaches -- one on either side of the pier, and one just west of the point itself. Stairways have been developed to serve all three beaches, and are connected by walkways and sidewalks on the blufftop. The beaches are utilized by sunbathers, picnickers, and skin divers. Handicapped access is available to the pier and to the beach south of the pier.

A path system commences at Lover's Point and continues westward to Perkins Park. Benches are located along the paths at several locations west of 17th Street. Small steps at the Ocean View Boulevard curb line provide direct access to the paths. Maintenance of the trails and vegetation has resulted in little danger to the blufftop habitat; however, erosion potential could be reduced by directing pedestrians to beach stairways.

Access to the pedestrian path on the old railroad right-of-way is available from the parking lot at the foot of Forest Avenue and 16th Street.

The Lover's Point area contains approximately 100 two-hour spaces located along Ocean View between Forest Avenue and Marine. Parking is unrestricted along the other portions of Ocean View in Area III. Twelve striped spaces (with no time limits) are located in front of the vacant property at the intersection of Briggs and 19th Streets.

Views of the bay are generally continuous along Ocean View Boulevard. Lover's Point Park and Perkins Park provide numerous prime bay vantage points for the pedestrian. Bay views are also available to guests of multi-level motels along Ocean View Boulevard.

AREA IV-A: OCEAN VIEW AREA

A continuous path network runs the length of this portion of Perkins Park, from Sea Palm to Asilomar Avenues, providing a blufftop pedestrian link between Areas III and IV B.

Numerous benches are located along the paths. The maintained status of most trails and vegetation results in little danger to the blufftop habitat. Again, erosion potential could be reduced by directing pedestrians to stay on designated paths.

At four points (near the foot of Coral Street, Beach Street, Shell Avenue, and Palm Avenue) stairways provide vertical access to small beaches. Access to a small beach near the foot of Acropolis Street is possible by descending the rocky bluff.

Parking is unrestricted in this area. Four pullouts on the bay side of Ocean View (at Sea Palm Avenue; between Beach Street and Shell Avenue -- at Otter Point; between Acropolis and Coral Streets; and between Asilomar Avenue and Acropolis Street) provide additional parking. The combined capacity for these pullouts is estimated to be about 70 cars. Picnic facilities are located at the Asilomar/Acropolis pullout.

There is a Class III (shared right-of-way) bicycle route in for this area. Striping and signs have not been provided.

Unrestricted bay views are available from Ocean View Boulevard, and from the paths and auto pullout areas in Perkins Park. Otter Point affords a popular vantage point for viewing the bay.

AREA IV-B: POINT PINOS

In this area, owned by the U.S. Government (with the exception of the City-owned sewer treatment plant), an informal path continues from the west end of Perkins Park, westward along the headlands and then southward to the last Ocean View Boulevard pullout, near the third hole of the municipal golf course. Pedestrian access to the beaches is readily available. Unmanaged pedestrian access in the headlands area has resulted in considerable trampling of vegetation.

Parking in the pullouts in this area is haphazard, with some vehicles parked at the very edge of the headlands. Impacts of parking to the bluff vegetation, and resulting erosion is evident in several areas. Combined capacity of the three pullout areas is estimated to be 70 cars.

Vehicle parking also occurs on the shoulder of Ocean View Boulevard, adjacent to the dunes. Inland of Ocean View, parking is available (dirt parking lot, with an estimated capacity of 50 cars) on the Lighthouse grounds, and also on

Asilomar Avenue at the entrance to the Lighthouse grounds (21 striped spaces). There are no parking restrictions in Area IV B.

Signs stating "Marine Refuge" are located at the Ocean View Boulevard pullout at the foot of Asilomar Avenue, and on Ocean View at the foot of Lighthouse Avenue. Signs prohibiting water contact activities and climbing on the Pt. Pinos rocky headlands are located on the beach opposite the Coast Guard fog horn. Visitor-directional signs are located at the Asilomar/Lighthouse Avenues intersection, and directly in front of the lighthouse entrance on Asilomar Avenue.

Unrestricted bay/ocean views are available from Ocean View Boulevard, as well as from the Asilomar/Lighthouse Avenues intersection at the southeast corner of Area IV B.

AREA V: SOUTHERN PACIFIC RAILROAD

In 1982, a joint powers agency consisting of the cities of Pacific Grove and Monterey, together with the Monterey Peninsula Regional Park District acquired the portion of the abandoned South Pacific right-of-way between Custom House Plaza (Monterey) and Lover's Point. In 1984, the portion of the right-of-way between the Monterey Bay Aquarium and Lover's Point was developed as a recreational trail for pedestrians and cyclists. Although to the west of Lover's Point the trail would not provide access along the immediate shoreline, the trail in this area would provide access to and along the coast by linking the Lover's Point/Cannery Row area to the Asilomar/Spanish Bay area. The City has continued to work with the City of Monterey and the Monterey Regional Park District to develop the portion of the right-of-way between the Monterey Bay Aquarium and Customs House Plaza in Monterey.

The route of the right-of-way from the mobile home park at Lover's Point passes through the City golf course and then through areas developed with single- and multi-family homes and motels. No ocean views are available from the right-of-way. Access to the right-of-way is provided at the various road intersections with the tracks, from Del Monte Boulevard to Pico Avenue.

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AREA VI: ASILOMAR

Asilomar Conference Grounds

Dunes within the Asilomar Conference Grounds are continually subject to moderate or heavy recreational use, depending on location. Interpretive signs have been used with limited success to guide people away from sensitive areas. A striped pedestrian way crosses Sunset Drive.

Development of the proposed recreational trail along the railroad right-of-way would provide an additional access opportunity. The only public parking facilities in the area are those at the Asilomar Conference Grounds. There are no restrictions on streetside parking in Area VI. Visitor-directional signs are located at the Asilomar Avenue intersections with Sinex Avenue and with Sunset Drive. Within the area there is no designated bicycle route.

Any new development within this area will be on the inland side of Sunset Drive. Consequently, there is no possibility for development to interfere with ocean views from that road. The Conference Grounds' dune areas adjacent to Sunset Drive possess considerable visual interest, and should be protected.

Asilomar Addition:

Asilomar State Beach makes up the majority of this planning area's shoreline lands. Seven contiguous privately-owned lots, one of which contains a single-family residence, are situated between the northern boundary of the State Beach and southern boundary of Pt. Pinos' open shorefront lands. Access is not available through these parcels. A continuous informal, trail network -- providing both lateral and vertical access opportunities -- extends the length of the State Beach property.

There are no designated public parking facilities within Area VI. Vehicle parking occurs on the shoulders of Sunset Drive, with the heaviest concentrations occurring south of Pico Avenue. There are no restrictions on parking, other than overnight parking. For a considerable distance, large rocks have been placed along the east side of Sunset Drive to prevent automobile intrusion onto State park property.

Signs identifying the State Beach, warning of rip current hazards, and prohibiting camping and unleashed dogs, are located at frequent intervals along Sunset Drive. No designated bike route exists in Area VI.

Continuous unobstructed ocean views are available from Sunset Drive, except at the single residence opposite Jewell Avenue.

Remaining vacant lands in the Asilomar dunes area, on the inland side of Sunset Drive, serve to lessen the contrast between existing development and the undisturbed open space of Asilomar State Beach and Asilomar Conference Grounds. Maximum retention of open areas within the Asilomar dunes will help protect the visual qualities of this area.

5.2 RELEVANT COASTAL ACT POLICIES

In addition to the requirements of Coastal Act Section 30500(a), that each LCP contain a public access component, several other Coastal Act policies address public access. Sections 30210 through 30212 require that any development occurring within the coastal zone shall not interfere with the public's right of access to the ocean. In addition, new development must provide access from the nearest public road to the shoreline so long as it is not inconsistent with public safety, military security needs, or protection of fragile coastal resources.

Sections 30212.5, 30252 and 30254 of the Coastal Act require that new development maintain and enhance public access to the coast by minimizing the use of coastal access routes; public facilities shall be distributed throughout an area in order to mitigate against impacts of overcrowding or overuse of any single area. In addition, new public works facilities must accommodate needs generated by development consistent with the provisions of the Coastal Act.

5.3 EXISTING POLICIES AND REGULATIONS

The City's General Plan and Open Space and Conservation Plan contain numerous policies and recommendations regarding preservation of open space lands for the purpose of providing outdoor recreation. However, these documents contain no specific policies or recommendations regarding the provision of public access to the shoreline except for citing two possibilities for non-vehicular access through portions of what is now the coastal zone: development of the railroad right-of-way as a recreational trail, and provision of a bicycle trail to run parallel to Ocean View Boulevard and Sunset Drive.

The only beaches lacking public access in the City's coastal zone are the three beaches on the shoreline adjacent to Stanford's Hopkins Marine Lab property. The restrictions to

Comprehensive investigation across states and territories from
January 1964, through the 1965-1966 season (Table 1)

During the winter months in the Pacific States, the
highest risk of infection is found in the winter and
spring months. The highest risk is found in the winter
months, and the lowest risk is found in the summer
months. The highest risk is found in the winter
months, and the lowest risk is found in the summer
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2.2. THE PACIFIC STATES

In addition to the Pacific States, the highest risk
of infection is found in the winter and spring
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months, and the lowest risk is found in the summer
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2.3. THE PACIFIC STATES

The Pacific States, which are the most
populated states in the Pacific, are the
most important states in the Pacific. The
highest risk of infection is found in the
winter and spring months. The highest risk
is found in the winter months, and the
lowest risk is found in the summer months.

The only Pacific States which are the most
populated states in the Pacific are the
most important states in the Pacific. The
highest risk of infection is found in the
winter and spring months. The highest risk
is found in the winter months, and the
lowest risk is found in the summer months.

this small segment of Pacific Grove's shoreline balances the need for public access with the protection of a sensitive environmental area. At the east end of the Stanford property shoreline access has been required by the City as a condition of subdivision approvals.

5.4 GENERAL POLICIES

1. The City shall provide safe and adequate pedestrian access to and along the shoreline.
2. The City shall coordinate shoreline access planning with the City of Monterey, County of Monterey, State Department of Parks and Recreation, U.S. Coast Guard, and Monterey Peninsula Regional Park District.
3. The City shall develop, as funding is available, a Coastal Parks Plan for the Pacific Grove coastal parklands, including the Lighthouse Reservation. The purpose of this plan as it relates to shoreline access, is to:
 - a. provide improved accessways where desirable, and control unrestricted parking by appropriate barriers or other means, consistent with the visual resource protection policies of this plan.
 - b. improve the existing sign program to include interpretive information pertaining to public safety, public access, protection of sensitive habitats, and special natural or man-made features.
 - c. prevent overuse and damage to plant and animal habitats and archaeological sites by developing regulations concerning maximum public usage.
 - d. provide standards for maintenance, management, and development of the City's coastal parklands in a manner consistent with the Resource Management policies of this Plan.
4. The City shall enhance access to its shoreline, while maintaining the coastal zone's unique character, by reducing the impact of automobiles. This shall be accomplished, in part, by encouraging use of public transit within the coastal zone, and by providing non-vehicular coastal zone access opportunities.

This report is submitted to the Board of Directors of the company for their consideration and approval. It is a confidential document and should be handled accordingly.

1. Executive Summary

The purpose of this report is to provide a comprehensive overview of the company's financial performance and operational activities for the year 2023.

The report is divided into several sections, including an overview of the company's performance, a detailed analysis of the financial statements, and a discussion of the company's strategic initiatives.

The financial performance of the company for the year 2023 was strong, with a significant increase in revenue and a decrease in expenses. This was primarily due to the company's successful implementation of its strategic initiatives.

The company's revenue increased by 15% compared to the previous year, while its expenses decreased by 10%. This resulted in a net profit of \$1.2 million, which is a 20% increase from the previous year.

The company's operational activities were also successful, with a significant increase in production and a decrease in waste. This was primarily due to the company's successful implementation of its operational initiatives.

The company's strategic initiatives for the year 2023 were focused on increasing revenue, decreasing expenses, and improving operational efficiency. These initiatives were successfully implemented, resulting in the company's strong performance.

The company's financial performance and operational activities for the year 2023 were excellent. This was primarily due to the company's successful implementation of its strategic initiatives.

The company's revenue increased by 15% compared to the previous year, while its expenses decreased by 10%. This resulted in a net profit of \$1.2 million, which is a 20% increase from the previous year.

5.5 SPECIFIC POLICIES

1. The City will maintain a continuous pedestrian coastal trail, the length of the City's coastal zone, seaward of Ocean View Boulevard/Sunset Drive.

2. As part of the planning process for the Pacific Grove Coastal Parks Plan the City will consider the following opportunities:

- a. In Planning Area II, (from 3rd Street to Fountain Avenue), provide well-defined trails along the bluffs with stairways to provide access to the water. Direct recreation to Berwick Park;
- b. In Planning Areas III and IV (from Fountain Avenue to 17 Mile Drive), maintain existing trails and vegetation. Reduce erosion by directing pedestrians to beach stairways;
- c. In Planning Area IV, clearly define parking areas from 17 Mile Drive west, to protect bluff vegetation and reduce erosion. To reduce conflicts between automobile and pedestrians/cyclists, provide ingress-egress directional arrows at parking areas.
- d. In Planning Area VI, on State-owned lands west of Sunset Drive, encourage the delineation of parking areas so as to reduce habitat damage by vehicles and to reduce conflicts with pedestrians/cyclists.
- e. For all existing and new shoreline accessways in Planning Areas I, II, III, IV and VI, develop an accessways maintenance program.
- f. Delineate specific tour bus pullout areas where designated trails and public restrooms are available.
- g. Encourage Hopkins Marine Station to replace existing chain link fence.

3. Excessive signs shall be avoided.

4. Public access from Sunset Drive/Ocean View Boulevard to the shoreline and along the coast shall be provided in any new development project except where (1) it is inconsistent with public safety, military security needs, or the protection of fragile coastal resources, or (2) adequate access exists nearby. Public vertical access easements to the

1. The following is a list of the names of the persons who have been appointed to the various positions in the Department of Agriculture, and the date of their appointment.

2. The following is a list of the names of the persons who have been appointed to the various positions in the Department of Agriculture, and the date of their appointment.

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shoreline shall have minimum widths of ten feet if walkways and five feet if stairways. Public lateral access easements shall be at least ten feet in width and generally no more than 25 feet inland from the mean high tide line. Trail width may be reduced to four feet where the habitat is considered fragile and where damage to dune vegetation and in particular rare and endangered flora is likely to result with wider trails. These requirements may be satisfied as follows: Planning Area I (Cabrillo Pt.), dedication and construction of vertical accessways at locations shown on Shoreline Access map (Fig.5); Planning Area VI (Asilomar Dunes), dedication of blufftop lateral access easement to an appropriate public agency or private conservation foundation, where private residential use could otherwise impair such access; and in Planning Area VI (Sunset Drive commercial area), installation of sidewalks and bike lanes where parcels designated Commercial and Visitor Accommodation front on Sunset Drive.

5. The City shall coordinate with the County of Monterey, California Department of Parks and Recreation, California Coastal Conservancy, the California Coastal Commission, and the Spanish Bay Resort project permittee to provide parking, bike lane, and segregated pedestrian trail on seaward shoulder of Sunset Drive where adjacent to the Spanish Bay Resort property.

6. The abandoned Southern Pacific railroad right-of-way from Lover's Point southwards to the point where it enters the Spanish Bay Resort property shall be designated for public recreational use. No development shall be allowed within the corridor which would compromise its utility for recreational access. Any additional private development within the mobile home park, or elsewhere within the abandoned right-of-way which could impair the use of the corridor as a potential accessway shall be conditioned to require dedication of a through recreational access easement to an appropriate public agency prior to issuance of permits; or deposit of in-lieu fees sufficient to establish alternate route. If an alternate route is established, it must result in through public access between the Lover's Point area and the existing Spanish Bay trail system, utilizing the abandoned railroad right-of-way wherever feasible.

As a secondary or conditional use, those portions of the right-of-way which are not purchased for public recreational use may be aggregated with adjoining existing parcels, provided that each segment of the former right-of-way is subject to the following easements:

- a) an open space easement, encompassing the entire segment; and,
- b) a public access easement, at least 20 feet in width, for the purpose of establishing a recreational trail route.

5.6 RECOMMENDED ACTIONS

1. The City encourages the State to adopt a Resource Management Plan for Asilomar State Beach, to include provisions for designated accessways which are both safe and non-disruptive of sensitive habitats.

1. The first part of the report, which is the most important, is the description of the situation. This part should be written in a clear and concise manner, and should be based on the facts of the case. It should not be too long, and should not contain any unnecessary details. It should be written in a way that is easy to understand, and should be written in a way that is consistent with the facts of the case.

2. The second part of the report is the analysis of the situation. This part should be written in a clear and concise manner, and should be based on the facts of the case. It should not be too long, and should not contain any unnecessary details. It should be written in a way that is easy to understand, and should be written in a way that is consistent with the facts of the case.

CALIFORNIA COASTAL ACT OF 1976

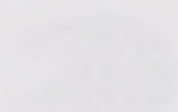
as amended February 1986



CALIFORNIA COASTAL COMMISSION

CALIFORNIA COASTAL ACT OF 1972

AS AMENDED



PUBLIC RESOURCES CODE

DIVISION 20

CALIFORNIA COASTAL ACT

<u>Chapter</u>		<u>Section</u>
1	Findings and Declarations and General Provisions.....	30000
2	Definitions.....	30100
2.5	Revisions to the Coastal Zone Boundary.....	30150
3	Coastal Resources Planning and Management Policies.....	30200
4	Creation, Membership, and Powers of Commission and Regional Commissions.....	30300
5	State Agencies.....	30400
6	Implementation.....	30500
7	Development Controls.....	30600
8	Ports.....	30700
9	Judicial Review, Enforcement, and Penalties.....	30800
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CHAPTER 1

FINDINGS AND DECLARATIONS AND GENERAL PROVISIONS

Section

30000	Citation.
30001	Legislative findings and declarations; ecological balance.
30001.2	Legislative findings and declarations; economic development.
30001.5	Legislative findings and declarations; goals.
30002	Legislative findings and declarations; implementation of plan.
30003	Compliance by public agencies.
30004	Legislative findings and declarations; necessity of continued planning and management.
30005	Local governmental powers; nuisances; attorney general's powers.
30005.5	Local governmental powers.
30006	Legislative findings and declarations; public participation.
30007	Housing; local governments.
30007.5	Legislative findings and declarations; resolution of policy conflicts.
30008	Division as coastal zone management program.
30009	Construction.
30010	Compensation for taking of private property; legislative declaration.
30011	Application of Govt. Code #65590 to development under this division.

Section 30000.

This division shall be known and may be cited as the California Coastal Act of 1976.

Section 30001.

The Legislature hereby finds and declares: -

(a) That the California coastal zone is a distinct and valuable natural resource of vital and enduring interest to all the people and exists as a delicately balanced ecosystem.

(b) That the permanent protection of the state's natural and scenic resources is a paramount concern to present and future residents of the state and nation.

(c) That to promote the public safety, health, and welfare, and to protect public and private property, wildlife, marine fisheries, and other ocean resources, and the natural environment, it is necessary to protect the ecological balance of the coastal zone and prevent its deterioration and destruction.

(d) That existing developed uses, and future developments that are carefully planned and developed consistent with the policies of this division, are essential to the economic and social well-being of the people of this state and especially to working persons employed within the coastal zone.

(Amended by Ch. 1090, Stats. 1979.)

Section 30001.2.

The Legislature further finds and declares that, notwithstanding the fact electrical generating facilities, refineries, and coastal-dependent developments, including ports and commercial fishing facilities, offshore petroleum and gas development, and liquefied natural gas facilities, may have significant adverse effects on coastal resources or coastal access, it may be necessary to locate such developments in the coastal zone in order to ensure that inland as coastal resources are preserved and that orderly economic development proceeds within the state.

Section 30001.5

The Legislature further finds and declares that the basic goals of the state for the coastal zone are to:

(a) Protect, maintain, and where feasible, enhance and restore the overall quality of the coastal zone environment and its natural and artificial resources.

(b) Assure orderly, balanced utilization and conservation of coastal zone resources taking into account the social and economic needs of the people of the state.

This section shall be read and construed in the light of the following provisions:

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(c) Maximize public access to and along the coast and maximize public recreational opportunities in the coastal zone consistent with sound resources conservation principles and constitutionally protected rights of private property owners.

(d) Assure priority for coastal-dependent and coastal-related development over other development on the coast.

(e) Encourage state and local initiatives and cooperation in preparing procedures to implement coordinated planning and development for mutually beneficial uses, including educational uses, in the coastal zone.

(Amended by Ch. 1090, Stats. 1979.)

(Amended by Ch. 1617, Stats. 1982.)

Section 30002.

The Legislature further finds and declares that:

(a) The California Coastal Zone Conservation Commission, pursuant to the California Coastal Zone Conservation Act of 1972 (commencing with Section 27000), has made a detailed study of the coastal zone; that there has been extensive participation by other governmental agencies, private interests, and the general public in the study; and that, based on the study, the commission has prepared a plan for the orderly, long-range conservation, use, and management of the natural, scenic, cultural, recreational, and manmade resources of the coastal zone.

(b) Such plan contains a series of recommendations which require implementation by the Legislature and that some of those recommendations are appropriate for immediate implementation as provided for in this division while others require additional review.

Section 30003.

All public agencies and all federal agencies, to the extent possible under federal law or regulations or the United States Constitution, shall comply with the provisions of this division.

Section 30004.

The Legislature further finds and declares that:

(a) To achieve maximum responsiveness to local conditions, accountability, and public accessibility, it is necessary to rely heavily on local government and local land use planning procedures and enforcement.

(b) To ensure conformity with the provisions of this division, and to provide maximum state involvement in federal activities allowable under federal law or regulations or the United States Constitution which affect California's coastal resources, to protect regional, state, and national interests in assuring the maintenance of the long-term productivity and economic vitality of coastal resources necessary for the well-being of the people of the state, and to avoid long-term costs to the public and a diminished quality of life

1. The Commission shall have the right to request the Government to provide information and documents necessary for the exercise of its functions.

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11. The Commission shall have the right to request the Government to provide information and documents necessary for the exercise of its functions.

resulting from the misuse of coastal resources, to coordinate and integrate the activities of the many agencies whose activities impact the coastal zone, and to supplement their activities in matters not properly within the jurisdiction of any existing agency, it is necessary to provide for continued state coastal planning and management through a state coastal commission.

Section 30005.

No provision of this division is a limitation on any of the following:

(a) Except as otherwise limited by state law, on the power of a city or county or city and county to adopt and enforce additional regulations, not in conflict with this act, imposing further conditions, restrictions, or limitations with respect to any land or water use or other activity which might adversely affect the resources of the coastal zone.

(b) On the power of any city or county or city and county to declare, prohibit, and abate nuisances.

(c) On the power of the Attorney General to bring an action in the name of the people of the state to enjoin any waste or pollution of the resources of the coastal zone or any nuisance.

(d) On the right of any person to maintain an appropriate action for relief against a private nuisance or for any other private relief.

Section 30005.5.

Nothing in this division shall be construed to authorize any local government, or to authorize the commission to require any local government, to exercise any power it does not already have under the Constitution and laws of this state or that is not specifically delegated pursuant to Section 30519.

(Added by Ch. 744, Stats. 1979.)

Section 30006.

The Legislature further finds and declares that the public has a right to fully participate in decisions affecting coastal planning, conservation and development; that achievement of sound coastal conservation and development is dependent upon public understanding and support; and that the continuing planning and implementation of programs for coastal conservation and development should include the widest opportunity for public participation.

Section 30007.

Nothing in this division shall exempt local governments from meeting the requirements of state and federal law with respect to providing low-and moderate-income housing, replacement housing, relocation benefits, or any other obligation related to housing imposed by existing law or any law hereafter enacted.

Section 30007.5.

The Legislature further finds and recognizes that conflicts may occur between one or more policies of the division. The Legislature therefore declares that in carrying out the provisions of this division such conflicts be resolved in a manner which on balance is the most protective of significant coastal resources. In this context, the Legislature declares that broader policies which, for example, serve to concentrate development in close proximity to urban and employment centers may be more protective, overall, than specific wildlife habitat and other similar resource policies.

Section 30008.

This division shall constitute California's coastal zone management program within the coastal zone for purposes of the Federal Coastal Zone Management Act of 1972 (16 U.S.C. 1451, et seq.) and any other federal act heretofore or hereafter enacted or amended that relates to the planning or management of coastal zone resources; provided, however, that within federal lands excluded from the coastal zone pursuant to the Federal Coastal Zone Management Act of 1972, the State of California shall, consistent with applicable federal and state laws, continue to exercise the full range of powers, rights, and privileges it now possesses or which may be granted.

(Amended by Ch. 1075, Stats. 1978.)

Section 30009.

This division shall be liberally construed to accomplish its purposes and objectives.

Section 30010.

The Legislature hereby finds and declares that this division is not intended, and shall not be construed as authorizing the regional commission, and commission, port governing body, or local government acting pursuant to this division to exercise their power to grant or deny a permit in a manner which will take or damage private property for public use, without the payment of just compensation therefor. This section is not intended to increase or decrease the rights of any owner of property under the Constitution of the State of California or the United States.

Section 30011.

Nothing in this division shall authorize the commission to review a local government's application of the requirements of Section 65590 of the Government Code to any development. In addition, the commission shall not require any applicant for a coastal development permit or any local government to provide certification or other evidence of compliance with the requirements of Section 65590 of the Government Code. The commission may, however, solely in connection with coastal development permit applications described in subdivision(c) of Section 30600.1, require information about the status of a local government's action to apply the requirements of Section 65590 of the Government Code. This information shall be used for the purpose determining time limits for commission action on these applications as provided in that subdivision (c).

(Added by Ch. 43, Stats. 1982.)

CHAPTER 3
COASTAL RESOURCES PLANNING AND
MANAGEMENT POLICIES

ARTICLE 1

GENERAL

Section

30200 Policies as standards; resolution of policy conflicts.

ARTICLE 2

PUBLIC ACCESS

30210 Access; recreational opportunities; posting.
30211 Development not to interfere with access.
30212 New development projects; provision for access;
exceptions.
30212.5 Public facilities; distribution.
30213 Lower cost visitor and recreational facilities; encouragement
and
provision, overnight room rentals.
30214 Implementation of public access policies; legislative intent.

ARTICLE 3

RECREATION

30220 Protection of certain water-oriented activities.
30221 Oceanfront land; protection for recreational use
and development.
30222 Private lands; priority of development purposes.
30222.5 Oceanfront land; protection for aquaculture use and
development.
30223 Upland areas.
30224 Recreational boating use; encouragement; facilities.

CHAPTER 3

CONSTITUTIONAL FOUNDATION AND POLITICAL POLICY

ARTICLE I

LEGISLATIVE

Section 1

Clause 1

All legislative Powers herein granted shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives.

ARTICLE II

EXECUTIVE

Section 1

Clause 1

Clause 2

Clause 3

Clause 4

Clause 5

Clause 6

Clause 7

The executive Power shall be vested in a President of the United States. He shall hold Office for four Years; and, together with the Vice President, chosen for the same Term, shall have the Honor and the Privilege of being elected to a second Term, but he shall not be elected to more than two Terms. If any President shall die, the Vice President shall become President. If a President shall resign, or be impeached and removed, or be incapable of discharging the Duties of his Office, the Vice President shall become President. If the Vice President shall die, or resign, or be impeached and removed, or be incapable of discharging the Duties of his Office, the President may nominate and, with the Advice and Consent of the Senate, appoint a Vice President, who shall hold Office until the President shall have chosen another Vice President, who shall then be elected by the Electors in the next regular Election.

The President shall have the Power to grant Reprieves and Pardons for all Offenses against the United States, except in Cases of Impeachment. He shall have the Power to make and receive Ambassadors and other public Ministers. He shall have the Power to make Treaties, provided two thirds of the Senators present shall concur. He shall nominate and, by and with the Advice and Consent of the Senate, shall appoint and dismiss Judges, Officers of the United States, and all civil Officers of the United States, except those whose Appointments are in the Constitution expressly provided shall be appointed in some other Manner. He shall have the Power to fill up all Vacancies that may happen during the recess of the Senate, by granting Commissions that shall expire at the next Session of the Senate.

ARTICLE III

JUDICIAL

Section 1

Clause 1

Clause 2

Clause 3

Clause 4

Clause 5

Clause 6

The judicial Power shall be vested in one Supreme Court, and in such inferior Courts as the Congress may from time to time ordain and establish. The Judges, both of the Supreme and inferior Courts, shall hold their Offices during good Behaviour, and shall, at any Time during their Continuance in Office, receive a Compensation, which shall not be diminished. The Supreme Court shall consist of a Chief Justice, and six other Justices, who shall be appointed by the President, by and with the Advice and Consent of the Senate. The Congress may, by Law, increase the Number of the inferior Courts, but no Judge shall exercise the Powers of more than one Court. The Congress may, by Law, determine the Place or Places for the holding of the Court of Appeals, and may, by Law, make such Regulations as shall be necessary for the efficient Conduct of the Business of the same. The Congress may, by Law, make such Regulations as shall be necessary for the efficient Conduct of the Business of the same.

ARTICLE 1

GENERAL

Section 30200.

(a) Consistent with the coastal zone values cited in Section 30001 and the basic goals set forth in Section 30001.5, and except as may be otherwise specifically provided in this division, the policies of this chapter shall constitute the standards by which the adequacy of local coastal programs, as provided in Chapter 6 (commencing with Section 30500), and, the permissibility of proposed developments subject to the provisions of this division are determined. All public agencies carrying out or supporting activities outside the coastal zone that could have a direct impact on resources within the coastal zone shall consider the effect of such actions on coastal zone resources in order to assure that these policies are achieved.

(b) Where the commission or any local government in implementing the provisions of this division identifies a conflict between the policies of this chapter, Section 30007.5 shall be utilized to resolve the conflict and the resolution of such conflicts shall be supported by appropriate findings setting forth the basis for the resolution of identified policy conflicts.

(Amended by Ch. 43, Stats. 1982.)

The first part of the book is devoted to a general survey of the history of the subject. The author begins with a brief history of the subject, and then proceeds to a more detailed account of the various theories and methods which have been employed in the study of the subject. The second part of the book is devoted to a detailed account of the various theories and methods which have been employed in the study of the subject. The third part of the book is devoted to a detailed account of the various theories and methods which have been employed in the study of the subject.

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ARTICLE 2

PUBLIC ACCESS

Section 30210.

In carrying out the requirement of Section 4 of Article X of the California Constitution, ~~maximum~~ access, which shall be conspicuously posted, and recreational opportunities shall be provided for all the people consistent with public safety needs and the need to protect public rights, rights of private property owners, and natural resource areas from overuse.

(Amended by Ch. 1075, Stats. 1978.)

Section 30211.

Development shall not interfere with the public's right of access to the sea where acquired through use or legislative authorization, including, but not limited to, the use of dry sand and rocky coastal beaches to the first line of terrestrial vegetation.

Section 30212.

(a) Public access from the nearest public roadway to the shoreline and along the coast shall be provided in new development projects except where:

(1) it is inconsistent with public safety, military security needs, or the protection of fragile coastal resources,

(2) adequate access exists nearby, or,

(3) agriculture would be adversely affected. Dedicated accessway shall not be required to be opened to public use until a public agency or private association agrees to accept responsibility for maintenance and liability of the accessway.

(b) For purposes of this section, "new development" does not include:

(1) Replacement of any structure pursuant to the provisions of subdivision (g) of Section 30610.

(2) The demolition and reconstruction of a single-family residence; provided, that the reconstructed residence shall not exceed either the floor area, height or bulk of the former structure by more than 10 percent, and that the reconstructed residence shall be sited in the same location on the affected property as the former structure.

(3) Improvements to any structure which do not change the intensity of its use, which do not increase either the floor area, height, or bulk of the structure by more than 10 percent, which do not block or impede public access, and which do not result in a seaward encroachment by the structure.

(4) The reconstruction or repair of any seawall; provided, however, that the reconstructed or repaired seawall is not a seaward of the location of the former structure.

(5) Any repair or maintenance activity for which the commission has determined, pursuant to Section 30610, that a coastal development permit will be required unless the commission determines that the activity will have an adverse impact on lateral public access along the beach.

As used in this subdivision "bulk" means total interior cubic volume as measured from the exterior surface of the structure.

(c) Nothing in this division shall restrict public access nor shall it excuse the performance of duties and responsibilities of public agencies which are required by Sections 66478.1 to 66478.14, inclusive, of the Government Code and by Section 4 of Article X of the California Constitution.

(Amended by Ch. 1075, Stats. 1978.)

(Amended by Ch. 919, Stats. 1979.)

(Amended by Ch. 744, Stats. 1983.)

Section 30212.5.

Wherever appropriate and feasible, public facilities, including parking areas or facilities, shall be distributed throughout an area so as to mitigate against the impacts, social and otherwise, or overcrowding or overuse by the public of any single area.

Section 30213.

Lower cost visitor and recreational facilities shall be protected, encouraged, and, where feasible, provided. Developments providing public recreational opportunities are preferred.

Neither the commission nor any regional commission shall either: (1) require that overnight room rentals be fixed at an amount certain for any privately owned and operated hotel, motel, or other similar visitor-serving facility located on either public or private lands; or (2) establish or approve any method for the identification of low or moderate-income persons for the purpose of determining eligibility for overnight room rentals in any such facilities.

(Amended by Ch. 1191, Stats. 1979.)

(Amended by Ch. 1087, Stats. 1980.)

(Amended by Ch. 1007, Stats. 1981.)

Section 30214.

(a) The public access policies of this article shall be implemented in a manner that takes into account the need to regulate the time, place, and manner of public access depending on the facts and circumstances in each case including, but not limited to, the following:

ARTICLE 3

RECREATION

Section 30220.

Coastal areas suited for water-oriented recreational activities that cannot readily be provided at inland water areas shall be protected for such uses.

Section 30221.

Oceanfront land suitable for recreational use shall be protected for recreational use and development unless present and foreseeable future demand for public or commercial recreational activities that could be accommodated on the property is already adequately provided for in the area.

(Amended by Ch. 380, Stats. 1978.)

Section 30222.

The use of private lands suitable for visitor-serving commercial recreational facilities designed to enhance public opportunities for coastal recreation shall have priority over private residential, general industrial, or general commercial development, but not over agriculture or coastal-dependent industry.

Section 30222.5.

Ocean front land that is suitable for coastal dependent aquaculture shall be protected for that use, and proposals for aquaculture facilities located on those sites shall be given priority, except over other coastal dependent developments or uses.

(Added by Ch. 1486, Stats. 1982.)

Section 30223.

Upland areas necessary to support coastal recreational uses shall be reserved for such uses, where feasible.

Section 30224.

Increased recreational boating use of coastal waters shall be encouraged, in accordance with this division, by developing dry storage areas, increasing public launching facilities, providing additional berthing space in existing harbors, limiting non-water-dependent land uses that congest access corridors and preclude boating support facilities, providing harbors of refuge, and by providing for new boating facilities in natural harbors, new protected water areas, and in areas dredged from dry land.

- (1) Topographic and geologic site characteristics.
 - (2) The capacity of the site to sustain use and at what level of intensity.
 - (3) The appropriateness of limiting public access to the right to pass and repass depending on such factors as the fragility of the natural resources in the area and the proximity of the access area to adjacent residential uses.
 - (4) The need to provide for the management of access areas so as to protect the privacy of adjacent property owners and to protect the aesthetic values of the area by providing for the collection of litter.
- (b) It is the intent of the Legislature that the public access policies of this article be carried out in a reasonable manner that considers the equities and that balances the rights of the individual property owner with the public's constitutional right of access pursuant to Section 4 of Article X of the California Constitution. Nothing in this section or any amendment thereto shall be construed as a limitation on the rights guaranteed to the public under Section 4 of Article X of the California Constitution.
- (c) In carrying out the public access policies of this article, the commission, regional commissions, and any other responsible public agency shall consider and encourage the utilization of innovative access management techniques, including, but not limited to, agreements with private organizations which would minimize management costs and encourage the use of volunteer programs.

(Amended by Ch. 919, Stats. 1979.)

ARTICLE 4

MARINE ENVIRONMENT

Section

30230	Marine resources; maintenance.
30231	Biological productivity; waste water.
30232	Oil and hazardous substance spills.
30233	Diking, filling or dredging.
30234	Commercial fishing and recreational facilities.
30235	Revetments, breakwaters, etc.
30236	Water supply and flood control.
30237	Habitat conservation plan; Bolsa Chica.

ARTICLE 5

LAND RESOURCES

30240	Environmentally sensitive habitat areas; adjacent developments.
30241	Prime agricultural land; maintenance in agricultural production.
30241.5	Agricultural lands; viability of.
30242	Lands suitable for agricultural use; conversion.
30243	Productivity of soils and timberlands; conversions.
30244	Archaeological or paleontological resources.

ARTICLE 6

DEVELOPMENT

30250	Location, generally.
30251	Scenic and qualities.
30252	Maintenance and enhancement of public areas.
30253	Safety, stability, pollution, energy conservation, visitors.
30254	Public works facilities.
30254.5	Sewage treatment plants and conditions.
30255	Priority of coastal-dependent developments.

ARTICLE 4

MARINE ENVIRONMENT

Section 30230.

Marine resources shall be maintained, enhanced, and where feasible, restored. Special protection shall be given to areas and species of special biological or economic significance. Uses of the marine environment shall be carried out in a manner that will sustain the biological productivity of coastal waters and that will maintain healthy populations of all species of marine organisms adequate for long-term commercial, recreational, scientific, and educational purposes.

Section 30231.

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of waste water discharges and entrainment, controlling runoff, preventing depletion of ground water supplies and substantial interference with surface water flow, encouraging waste water reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

Section 30232.

Protection against the spillage of crude oil, gas, petroleum products, or hazardous substances shall be provided in relation to any development or transportation of such materials. Effective containment and cleanup facilities and procedures shall be provided for accidental spills that do occur.

Section 30233.

(a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:

(1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.

(2) Maintaining existing, or restoring previously dredged, depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.

(3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if,

in conjunction with such boating facilities, a substantial portion of the degraded wetland is restored and maintained as a biologically productive wetland. The size of the wetland area used for boating facilities, including berthing space, turning basins, necessary navigation channels, and any necessary support service facilities, shall not exceed 25 percent of the degraded wetland.

(4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.

(5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.

(6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.

(7) Restoration purposes.

(8) Nature study, aquaculture, or similar resource dependent activities.

(b) Dredging and spoils disposal shall be planned and carried out to avoid significant disruption to marine and wildlife habitats and water circulation. Dredge spoils suitable for beach replenishment should be transported for such purposes to appropriate beaches or into suitable long shore current systems.

(c) In addition to the other provisions of this section, diking, filling, or dredging in existing estuaries and wetlands shall maintain or enhance the functional capacity of the wetland or estuary. Any alteration of coastal wetlands identified by the Department of Fish and Game, including, but not limited to, the 19 coastal wetlands identified in its report entitled, "Acquisition Priorities for the Coastal Wetlands of California", shall be limited to very minor incidental public facilities, restorative measures, nature study, commercial fishing facilities in Bodega Bay, and development in already developed parts of south San Diego Bay, if otherwise in accordance with this division.

For the purposes of this section, "commercial fishing facilities in Bodega Bay" means that not less than 80 percent of all boating facilities proposed to be developed or improved, where such improvement would create additional berths in Bodega Bay, shall be designed and used for commercial fishing activities.

(d) Erosion control and flood control facilities constructed on water courses can impede the movement of sediment and nutrients which would otherwise be carried by storm runoff into coastal waters. To facilitate the continued delivery of these sediments to the littoral zone, whenever feasible, the material removed from these facilities may be placed at appropriate points on the shoreline in accordance with other applicable provisions of this division, where feasible mitigation measures have been provided to minimize adverse

environmental effects. Aspects that shall be considered before issuing a coastal development permit for such purposes are the method of placement, time of year of placement, and sensitivity of the placement area.

(Amended by Ch. 673, Stats. 1978.)
(Amended by Ch. 43, Stats. 1982.)
(Amended by Ch. 1167, Stats. 1982.)
(Amended by Ch. 454, Stats. 1983.)

Section 30234.

Facilities serving the commercial fishing and recreational boating industries shall be protected and, where feasible, upgraded. Existing commercial fishing and recreational boating harbor space shall not be reduced unless the demand for those facilities no longer exists or adequate substitute space has been provided. Proposed recreational boating facilities shall, where feasible, be designed and located in such a fashion as not to interfere with the needs of the commercial fishing industry.

Section 30235.

Revetments, breakwaters, groins, harbor channels, seawalls, cliff retaining walls, and other such construction that alters natural shoreline processes shall be permitted when required to serve coastal-dependent uses or to protect existing structures or public beaches in danger from erosion, and when designed to eliminate or mitigate adverse impacts on local shoreline sand supply. Existing marine structures causing water stagnation contributing to pollution problems and fish kills should be phased out or upgraded where feasible.

Section 30236.

Channelizations, dams, or other substantial alterations of rivers and streams shall incorporate the best mitigation measures feasible, and be limited to (1) necessary water supply projects, (2) flood control projects where no other method for protecting existing structures in the floodplain is feasible and where such protection is necessary for public safety or to protect existing development, or (3) developments where the primary function is the improvement of fish and wildlife habitat.

Section 30237.

(a) This section shall apply only to the Bolsa Chica wetlands or a portion thereof in the County of Orange.

The County of Orange or any landowner may petition the Department of Fish and Game, on or before October 1, 1983, to prepare a habitat conservation plan. Upon receipt of the petition, the Department of Fish and Game and the State Coastal Conservancy, in cooperation with the county and any landowner, shall jointly prepare a habitat conservation plan in order to carry out the following objectives:

(1) To provide for the conservation of the habitat of fish and wildlife resources.

(2) To anticipate and resolve potential conflicts between the conservation of fish and wildlife resources or their habitat and actions by local, state, or federal agencies and private persons.

(3) To provide for greater certainty and predictability regarding the conservation of fish and wildlife resources and their habitat and regarding private and public activities potential affecting those resources.

(b) With respect to the preparation of the habitat conservation plan, the Department of Fish and Game shall be the lead agency for wetland identification purposes and the State Coastal Conservancy shall be the lead agency for the purposes of identifying land use alternatives. Upon completion of the habitat conservation plan and on or before July 20, 1984, the Department of Fish and Game and the State Coastal Conservancy shall jointly forward it to the commission for approval. The commission shall approve the plan if it finds it raises no substantial issue as to conformity with the planning and management policies of this chapter. If the plan is approved by the Commission, it may be incorporated into the county's local coastal program.

(c) All costs of preparation of the habitat conservation plan, including, but not limited to, additional necessary personnel temporarily appointed by the Department of Fish and Game and the State Coastal Conservancy, shall be paid by the petitioner or petitioners. If additional personnel are necessary, the Department of Finance shall review the requests to ensure that the personnel required will be utilized to carry out only the purposes of this section. If the Department of Finance finds the additional personnel required will be utilized only to carry out the purposes of this section, the temporary appointment requests shall be processed and approved by the Department of Finance in an expedited fashion, in no event longer than 10 working days after the requests are made. Furthermore, these requests for temporary appointments shall be exempt from all state personnel hiring requirements, for the review provided in this subdivision by the Department of Finance, and from any personnel hiring limitations during the time period set forth in this section for the preparation of the habitat conservation plan.

(Added by Ch. 1203, Stats. 1983.)

ARTICLE 5

LAND RESOURCES

Section 30240.

(a) Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values, and only uses dependent on such resources shall be allowed within such areas.

(b) Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade such areas, and shall be compatible with the continuance of such habitat areas.

Section 30241.

The maximum amount of prime agricultural land shall be maintained in agricultural production to assure the protection of the areas agricultural economy, and conflicts shall be minimized between agricultural and urban land uses through all of the following:

(a) By establishing stable boundaries separating urban and rural areas, including, where necessary, clearly defined buffer areas to minimize conflicts between agricultural and urban land uses.

(b) By limiting conversions of agricultural lands around the periphery of urban areas to the lands where the viability of existing agricultural use is already severely limited by conflicts with urban uses or where the conversion of the lands would complete a logical and viable neighborhood and contribute to the establishment of a stable limit to urban development.

(c) By permitting the conversion of agricultural land surrounded by urban uses where the conversion of the land would be consistent with Section 30250.

(d) By developing available lands not suited for agriculture prior to the conversion of agricultural lands.

(e) By assuring that public service and facility expansions and nonagricultural development do not impair agricultural viability, either through increased assessment costs or degraded air and water quality.

(f) By assuring that all divisions of prime agricultural lands, except those conversions approved pursuant to subdivision (b), and all development adjacent to prime agricultural lands shall not diminish the productivity of such prime agricultural lands.

(Amended by Ch. 1066, Stats. 1981.)

(Amended by Ch. 43, Stats. 1982.)

Section 30241.5

(a) If the viability of existing agricultural uses is an issue pursuant to subdivision (b) of Section 30241 as to any local coastal program or amendment

to any certified local coastal program submitted for review and approval under this division, the determination of "viability" shall include, but not be limited to, consideration of an economic feasibility evaluation containing at least both of the following elements:

(1) An analysis of the gross revenue from the agricultural products grown in the area for the five years immediately preceding the date of the filing of a proposed local coastal program or an amendment to any local coastal program.

(2) An analysis of the operational expenses, excluding the cost of land, associated with the production of the agricultural products grown in the area for the five years immediately preceding the date of the filing of a proposed local coastal program or an amendment to any local coastal program.

For purposes of this subdivision, "area" means a geographic area of sufficient size to provide an accurate evaluation of the economic feasibility of agricultural uses for those lands included in the local coastal program or in the proposed amendment to a certified local coastal program.

(b) The economic feasibility evaluation required by subdivision (a) shall be submitted to the commission, by the local government, as part of its submittal of a local coastal program or an amendment to any local coastal program. If the local government determines that it does not have the staff with the necessary expertise to conduct the economic feasibility evaluation, the evaluation may be conducted under agreement with the local government by a consultant selected jointly by local government and the executive director of the commission.

(Added by Ch. 259, Stats. 1984.)

Section 30242.

All other lands suitable for agricultural use shall not be converted to nonagricultural uses unless (1) continued or renewed agricultural use is not feasible, or (2) such conversion would preserve prime agricultural land or concentrate development consistent with Section 30250. Any such permitted conversion shall be compatible with continued agricultural use on surrounding lands.

Section 30243.

The long-term productivity of soils and timberlands shall be protected, and conversions of coastal commercial timberlands in units of commercial size to other uses or their division into units of noncommercial size shall be limited to providing for necessary timber processing and related facilities.

Section 30244.

Where development would adversely impact archaeological or paleontological resources as identified by the State Historic Preservation Officer, reasonable mitigation measures shall be required.

ARTICLE 6

DEVELOPMENT

Section 30250.

(a) New residential, commercial, or industrial development, except as otherwise provided in this division, shall be located within, contiguous with, or in close proximity to, existing developed areas able to accommodate it or, where such areas are not able to accommodate it, in other areas with adequate public services and where it will not have a significant adverse effects, either individually or cumulatively, on coastal resources. In addition, land divisions, other than leases for agricultural uses, outside existing developed areas shall be permitted only where 50 percent of the usable parcels in the area have been developed and the created parcels would be no smaller than the average size of surrounding parcels.

(b) Where feasible, new hazardous industrial development shall be located away from existing developed areas.

(c) Visitor-serving facilities that cannot feasibly be located in existing developed areas shall be located in existing isolated developments or at selected points of attraction for visitors.

(Amended by Ch. 1090, Stats. 1979.)

Section 30251.

The scenic and visual qualities of coastal areas shall be considered and protected as a resource of public importance. Permitted development shall be sited and designed to protect views to and along the ocean and scenic coastal areas, to minimize the alteration of natural land forms, to be visually compatible with the character surrounding areas, and, where feasible, to restore and enhance visual quality in visually degraded areas. New development in highly scenic areas such as those designated in the California Coastline Preservation and Recreation Plan prepared by the Department of Parks and Recreation and by local government shall be subordinate to the character of its setting.

Section 30252.

The location and amount of new development should maintain and enhance public access to the coast by (1) facilitating the provision or extension of transit service, (2) providing commercial facilities within or adjoining residential development or in other areas that will minimize the use of coastal access roads, (3) providing nonautomobile circulation within the development, (4) providing adequate parking facilities or providing substitute means of serving the development with public transportation, (5) assuring the potential for public transit for high intensity uses such as high-rise office buildings, and by (6) assuring that the recreational needs of new residents will not overload nearby coastal recreation areas by correlating the amount of development with local park acquisition and development plans with the provision of onsite recreational facilities to serve the new development.

Section 30253.

New development shall:

(1) Minimize risks to life and property in areas of high geologic, flood, and fire hazard.

(2) Assure stability and structural integrity, and neither create nor contribute significantly to erosion, geologic instability, or destruction of the site or surrounding area or in any way require the construction of protective devices that would substantially alter natural landforms along bluffs and cliffs.

(3) Be consistent with requirements imposed by an air pollution control district or the State Air Resources Control Board as to each particular development.

(4) Minimize energy consumption and vehicle miles traveled.

(5) Where appropriate, protect special communities and neighborhoods which, because of their unique characteristics, are popular visitor destination points for recreational uses.

Section 30254.

New or expanded public works facilities shall be designed and limited to accommodate needs generated by development or uses permitted consistent with the provisions of this division; provided, however, that it is the intent of the Legislature that State Highway Route 1 in rural areas of the coastal zone remain a scenic two-lane road. Special districts shall not be formed or expanded except where assessment for, and provision of, the service would not induce new development inconsistent with this division. Where existing or planned public works facilities can accommodate only a limited amount of new development, services to coastal dependent land use, essential public services and basic industries vital to the economic health of the region, state, or nation, public recreation, commercial recreation, and visitor-serving land uses shall not be precluded by other development.

Section 30254.5.

Notwithstanding any other provision of law, the commission may not impose any term or condition on the development of any sewage treatment plant which is applicable to any future development that the commission finds can be accommodated by that plan consistent with this division. Nothing in this section modifies the provisions and requirements of Sections 30254 and 30412.

(Added by Ch. 978, Stats. 1984.)

Section 30255.

Coastal-dependent developments shall have priority over other developments on or near the shoreline. Except as provided elsewhere in this division, coastal-dependent developments shall not be sited in a wetland. When appropriate, coastal-related developments should be accommodated within reasonable proximity to the coastal-dependent uses they support.

(Amended by Ch. 1090, Stats. 1979.)

ARTICLE 7

INDUSTRIAL DEVELOPMENT

Section

30260	Location or expansion.
30261	Use of tanker facilities; liquefied natural gas terminals.
30262	Oil and gas development.
30263	Refineries or petrochemical facilities.
30264	Thermal electric generating plants.
30265	Offshore oil transport and refining.
30265.5	Coordination of offshore oil transport and refining activities.

ARTICLE 7

INDUSTRIAL DEVELOPMENT

Section 30260.

Coastal-dependent industrial facilities shall be encouraged to locate or expand within existing sites and shall be permitted reasonable long-term growth where consistent with this division. However, where new or expanded coastal-dependent industrial facilities cannot feasibly be accommodated consistent with other policies of this division, they may nonetheless be permitted in accordance with this section and Sections 30261 and 30262 if (1) alternative locations are infeasible or more environmentally damaging; (2) to do otherwise would adversely affect the public welfare; and (3) adverse environmental effects are mitigated to the maximum extent feasible.

Section 30261.

(a) Multicompany use of existing and new tanker facilities shall be encouraged to the maximum extent feasible and legally permissible, except where to do so would result in increased tanker operations and associated onshore development incompatible with the land use and environmental goals for the area. New tanker terminals outside of existing terminal areas shall be situated as to avoid risk to environmentally sensitive areas and shall use a monobuoy system, unless an alternative type of system can be shown to be environmentally preferable for a specific site. Tanker facilities shall be designed to (1) minimize the total volume of oil spilled, (2) minimize the risk of collision from movement of other vessels, (3) have ready access to the most effective feasible containment and recovery equipment for oil spills, and (4) have onshore deballasting facilities to receive any fouled ballast water from tankers where operationally or legally required.

(b) Because of the unique problems involved in the importation, transportation, and handling of liquefied natural gas, the location of terminal facilities therefore shall be determined solely and exclusively as provided in Chapter 10 (commencing with Section 5550) of Division 2 of the Public Utilities Code and the provisions of this division shall not apply unless expressly provided in such Chapter 10.

(Amended by Ch. 855, Stats. 1977.)

Section 30262.

Oil and gas development shall be permitted in accordance with Section 30260, if the following conditions are met:

(a) The development is performed safely and consistent with the geologic conditions of the well site.

(b) New or expanded facilities related to such development are consolidated, to the maximum extent feasible and legally permissible, unless consolidation will have adverse environmental consequences and will not significantly reduce the number of producing wells, support facilities, or sites required to produce the reservoir economically and with minimal environmental impacts.

(c) Environmentally safe and feasible subsea completions are used when drilling platforms or islands would substantially degrade coastal visual qualities unless use of such structures will result in substantially less environmental risks.

(d) Platforms or islands will not be sited where a substantial hazard to vessel traffic might result from the facility or related operations, determined in consultation with the United States Coast Guard and the Army Corps of Engineers.

(e) Such development will not cause or contribute to subsidence hazards unless it is determined that adequate measures will be undertaken to prevent damage from such subsidence.

(f) With respect to new facilities, all oilfield brines are reinjected into oil-producing zones unless the Division of Oil and Gas of the Department of Conservation determines to do so would adversely affect production of the reservoirs and unless injection into other subsurface zones will reduce environmental risks. Exceptions to reinjections will be granted consistent with the Ocean Waters Discharge Plan of the State Water Resources Control Board and where adequate provision is made for the elimination of petroleum odors and water quality problems.

Where appropriate, monitoring programs to record land surface and near-shore ocean floor movements shall be initiated in locations of new large-scale fluid extraction on land or near shore before operations begin and shall continue until surface conditions have stabilized. Costs of monitoring and mitigation programs shall be borne by liquid and gas extraction operators.

Section 30263.

(a) New or expanded refineries or petrochemical facilities not otherwise consistent with the provisions of this division shall be permitted if (1) alternative locations are not feasible or are more environmentally damaging; (2) adverse environmental effects are mitigated to the maximum extent feasible; (3) it is found that not permitting such development would adversely affect the public welfare; (4) the facility is not located in a highly scenic or seismically hazardous area, on any of the Channel Islands, or within or contiguous to environmentally sensitive areas; and (5) the facility is sited so as to provide a sufficient buffer area to minimize adverse impacts on surrounding property.

(b) In addition to meeting all applicable air quality standards, new or expanded refineries or petrochemical facilities shall be permitted in areas designated as air quality maintenance areas by the State Air Resources Board and in areas where coastal resources would be adversely affected only if the negative impacts of the project upon air quality are offset by reductions in gaseous emissions in the area by the users of the fuels, or, in the case of an expansion of an existing site, total site emission levels, and site levels for each emission type for which national or state ambient air quality standards have been established do not increase.

(c) New or expanded refineries or petrochemical facilities shall minimize the need for once-through cooling by using air cooling to the maximum extent

feasible and by using treated waste waters from inplant processes where feasible.

Section 30264.

Notwithstanding any other provision of this division, except subdivisions (b) and (c) of Section 30413, new or expanded thermal electric generating plants may be constructed in the coastal zone if the proposed coastal site has been determined by the State Energy Resources Conservation and Development Commission to have greater relative merit pursuant to the provisions of Section 25516.1 than available alternative sites and related facilities for an applicant's service area which have been determined to be acceptable pursuant to the provisions of Section 25516.

Section 30265.

The Legislature finds and declares all of the following:

(a) Offshore oil production will increase dramatically in the next 10 years from the current 80,000 barrels per day to over 400,000 barrels per day.

(b) Transportation studies have concluded that pipeline transport of oil is generally both economically feasible and environmentally preferable to other forms of crude oil transport.

(c) Oil companies have proposed to build a pipeline to transport offshore crude oil from central California to southern California refineries, and to transport offshore oil to out-of-state refiners.

(d) California refineries would need to be retrofitted if California offshore crude oil were to be used directly as a major feedstock. Refinery modifications may delay achievement of air quality goals in the southern California air basin and other regions of the state.

(e) The County of Santa Barbara has issued an Oil Transportation Plan which assesses the environmental and economic differences among various methods for transporting crude oil from offshore California to refineries.

(f) The Governor should help coordinate decisions concerning the transport and refining of offshore oil in a manner which considers state and local studies undertaken to date, which fully addresses the concerns of all affected regions, and which promotes the greatest benefits to the people of the state.

(Added by Ch. 1398, Stats. 1984.)

Section 30265.5.

(a) The Governor, or the Governor's designee, shall coordinate activities concerning the transport and refining of offshore oil. Coordination efforts shall consider public health risks, the ability to achieve short- and long-term air emission reduction goals, the potential for reducing California's vulnerability and dependence on oil imports, economic development and jobs, and other factors deemed important by the Governor, or the Governor's designees.

(b) The Governor, or the Governor's designee, shall work with state and local agencies, and the public, to facilitate the transport and refining of offshore oil in a manner which will promote the greatest public health and environmental and economic benefits to the people of the State.

(c) The Governor, or the Governor's designee, shall consult with any individual or organization having knowledge in this area, including, but not limited to, representatives from the following:

- (1) State Energy Resources Conservation and Development Commission.
- (2) State Air Resources Board.
- (3) California Coastal Commission.
- (4) Department of Fish and Game.
- (5) State Lands Commission.
- (6) Public Utilities Commission.
- (7) Santa Barbara County.
- (8) Santa Barbara County Air Pollution Control District.
- (9) Southern California Association of Governments.
- (10) South Coast Air Quality Management Districts.
- (11) Oil Industry.
- (12) Public interest groups.
- (13) United States Department of the Interior.
- (14) United States Department of Energy.
- (15) United States Environmental Protection Agency.
- (16) National Oceanic and Atmospheric Administration.
- (17) United States Coast Guard.

(d) This act is not intended, and shall not be construed, to decrease, duplicate, or supersede the jurisdiction, authority, or responsibilities of any local government, or any state agency or commission, to discharge its responsibilities concerning the transportation and refining of oil.

(Added by Ch. 1398, Stats. 1984.)

Section 30253.

New development shall:

(1) Minimize risks to life and property in areas of high geologic, flood, and fire hazard.

(2) Assure stability and structural integrity, and neither create nor contribute significantly to erosion, geologic instability, or destruction of the site or surrounding area or in any way require the construction of protective devices that would substantially alter natural landforms along bluffs and cliffs.

(3) Be consistent with requirements imposed by an air pollution control district or the State Air Resources Control Board as to each particular development.

(4) Minimize energy consumption and vehicle miles traveled.

(5) Where appropriate, protect special communities and neighborhoods which, because of their unique characteristics, are popular visitor destination points for recreational uses.

Section 30254.

New or expanded public works facilities shall be designed and limited to accommodate needs generated by development or uses permitted consistent with the provisions of this division; provided, however, that it is the intent of the Legislature that State Highway Route 1 in rural areas of the coastal zone remain a scenic two-lane road. Special districts shall not be formed or expanded except where assessment for, and provision of, the service would not induce new development inconsistent with this division. Where existing or planned public works facilities can accommodate only a limited amount of new development, services to coastal dependent land use, essential public services and basic industries vital to the economic health of the region, state, or nation, public recreation, commercial recreation, and visitor-serving land uses shall not be precluded by other development.

Section 30254.5.

Notwithstanding any other provision of law, the commission may not impose any term or condition on the development of any sewage treatment plant which is applicable to any future development that the commission finds can be accommodated by that plan consistent with this division. Nothing in this section modifies the provisions and requirements of Sections 30254 and 30412.

(Added by Ch. 978, Stats. 1984.)

Section 30255.

Coastal-dependent developments shall have priority over other developments on or near the shoreline. Except as provided elsewhere in this division, coastal-dependent developments shall not be sited in a wetland. When appropriate, coastal-related developments should be accommodated within reasonable proximity to the coastal-dependent uses they support.

(Amended by Ch. 1090, Stats. 1979.)

TREE PLANTING 12.16.010-12.16.035

**Chapter 12.16
TREE PLANTING**

Sections:

- 12.16.010 Planting in public parkways—Permission required.
- 12.16.020 Removing from public parkway—Permit required.
- 12.16.030 Trimming, pruning tree in public parkway—Permit required.
- 12.16.035 Franchise holders—Emergency trimming.
- 12.16.040 Beautification committee—Determination of suitable trees.
- 12.16.050 City manager's authority—Appeal to council.
- 12.16.060 Duty of abutting land owners to cultivate trees on public property.
- 12.16.070 Request for cooperation.
- 12.16.080 New subdivisions—Cost of trees paid to city.
- 12.16.090 Removal—Permit required.
- 12.16.100 Removal—Permit application.
- 12.16.110 Removal—City manager to inspect.
- 12.16.120 Removal—Provisions to be observed.
- 12.16.130 Stumps—Removal—Nuisance.
- 12.16.140 Slash removal.
- 12.16.150 Appeal to beautification committee.
- 12.16.160 Violations.

12.16.010 Planting in public parkways — Permission required. It shall be unlawful for any person, firm or corporation to plant, or set out, any trees in the public parkways without the written consent of the city manager. (Ord. 258 N.S., 1954; Ord. 210 N.S. § 8-3170(1), 1952).

12.16.020 Removing from public parkway — Permit required. It shall be unlawful for any person, firm or corporation to remove any tree, or device necessary for the protection thereof, from public parkways without securing a permit, in writing, duly authorized by the city manager. (Ord. 258 N.S., 1954; Ord. 210 N.S. § 8-3170(2), 1952).

12.16.030 Trimming, pruning tree in public parkway — Permit required. It shall be unlawful for any person, firm or corporation to prune, trim or in any way alter the shape or interfere with the growth of any tree in a public parkway without notifying the city manager, in writing, and securing a written permit to do so. (Ord. 258 N.S., 1954; Ord. 210 N.S. § 8-3170(3), 1952).

12.16.035 Franchise holders — Emergency trimming. Notwithstanding the other provisions of this chapter, duly authorized personnel of utility companies whose franchises from the city are current and in effect, may in an emergency trim trees or remove trees which are threatening to interrupt or have interrupted utility service, only to the extent necessary to alleviate

the emergency. The utility company shall report all such instances of emergency action on trees to the city manager within seventy-two hours of the event. (Ord. 817 N.S., 1974).

12.16.040 Beautification committee – Determination of suitable trees. The beautification committee shall be charged with the duty of promptly determining the types and kinds of trees and shrubs suitable and desirable for planting in the public streets, avenues, highways and parkways within the city. Such determination shall be made by the committee after consultation with competent arborists and nurserymen familiar with the subjects of such plantings. When such determination has been made by the committee, the committee shall report its determinations in writing to the city council in a report to be designated **FIRST OFFICIAL TREES AND SHRUBS PLANTING LIST, PACIFIC GROVE, CALIFORNIA**. The report shall be ordered placed on file in the office of the city clerk and, after such filing, the same shall be the official determination of the committee in the premises. Thereafter, the committee may from time to time file second, third, fourth, etc., reports covering the same subject, each of which shall be complete in itself and each of which shall be transmitted and filed in the office of the city clerk as in the first instance. The latest of such reports so made, transmitted and filed shall be and constitute the official list until supplanted by a subsequent list. (Ord. 817 N.S., 1974).

12.16.050 City manager's authority – Appeal to council. The city manager shall have full jurisdiction and control of the designation of kind and type, planting, setting out, location and placement of all trees and shrubs in the public streets, avenues, highways and parkways of the city and shall likewise have supervision, direction and control of the removal, relocation and replacement thereof, provided, however, that in making such determinations and exercising such control, he shall be limited to the trees and shrubs designated on the then current official trees and shrubs planting list so prepared, transmitted and filed; and provided further that any person aggrieved by any act or determination of the city manager in the exercise of the authority herein granted, shall have the right of appeal to the beautification committee and thereafter to the city council in accordance with the procedures prescribed by Section 12.16.150. (Ord. 817 N.S., 1974).

12.16.060 Duty of abutting land owners to cultivate trees on public property. It is hereby made the duty of all owners and persons having the possession and control of real property within the city to properly cultivate, care for and maintain all trees and shrubs now or hereafter planted or set out within any of the public streets, avenues, highways and parkways planting areas immediately adjacent to their respective real properties, subject, however, to the general supervision, direction and control of the city manager as hereinabove in this chapter contemplated. (Ord. 258 N.S., 1954; Ord. 210 N.S. § 8-3170(6), 1952).

12.16.070 Request for cooperation. The city council hereby respectfully requests all property owners, citizens, and members of the public within the city to cooperate in carrying into effect and supporting the comprehensive plan for city beautification, which is contemplated by this chapter, to the end that the existing natural beauty of the city may be enhanced and made ever more evident. (Ord. 258 N.S., 1954: Ord. 210 N.S. § 8-3170(7), 1952).

12.16.080 New subdivisions – Cost of trees paid to city. Before any street improvements in any new subdivision of real property in the city are accepted by the city council, the subdivider shall pay to the City of Pacific Grove the total cost of all trees to be planted along all streets in said subdivision. After receipt of said payment, the city will plant said trees at the proper time. (Ord. 258 N.S., 1954: Ord. 210 N.S. § 8-3170(8), 1952).

12.16.090 Removal – Permit required. No person shall cut down, destroy, remove, trim substantially, or move, girdle or top any tree on other than public streets, avenues, highways and parkways of the city, with a trunk circumference of nineteen inches (48.26 centimeters) or greater, measured twenty-four inches (60.96 centimeters) above the ground, or more than five trees on one building site regardless of diameter, growing within the city, unless a permit to do so has been obtained from the city manager or his designated representative. (Ord. 940 N.S. § 1, 1977: Ord. 817 N.S., 1975).

12.16.100 Removal – Permit application. Application for the permit referred to in Section 12.16.090 shall be made to the city manager, on forms provided by him for purposes of this chapter. The fee for such permit shall be five dollars for each tree six inches or more in diameter sought to be acted upon, or group of trees if less than six inches in diameter, with a maximum fee of fifty dollars. No fee shall be required in respect of a single tree on residentially zoned property. (Ord. 940 N.S. § 2, 1977: Ord. 817 N.S., 1975).

12.16.110 Removal – City manager to inspect. The city manager, or his designated representative shall inspect the tree or trees involved and surrounding area to determine whether or not, and under what conditions, the permit should be granted. The standards to be observed in granting any permit under this chapter are as follows:

A. A tree shall not be removed or substantially trimmed for the primary purpose of securing or improving a view, or for light or air;

B. A tree which serves as a part of a windbreak system, or assists in drainage or the avoidance of soil erosion, is to be preserved if at all feasible;

C. A tree should not be removed solely because diseased if the disease is readily curable;

D. Every tree which is removed shall be replaced at the owner's expense with a tree serving a comparable use as the removed tree, to the extent feasible;

E. Trees which constitute dangers to public safety, or which by reason of disease constitute a danger to other forms of vegetation, shall be removed, trimmed or treated, whichever is appropriate;

F. All work done under a permit shall be done in a workmanlike manner. No tree shall be trimmed to an extent which destroys its identity as a tree, unless the conditions for its removal exist;

G. Trees which give aesthetic beauty to an area are to be preserved if at all feasible;

H. The city manager or his representative shall impose such conditions on the permit as he shall deem necessary to fulfill the standards herein prescribed. (Ord. 817 N.S., 1974).

12.16.120 Removal – Provisions to be observed. Where it is proposed to remove a tree or trees for purposes of erecting a structure or providing parking places or for purposes of facilitating grading or lot clearance, the following provisions shall be observed:

(a) No building or grading permit shall issue until a tree removal permit has been secured and the time for appeal thereon has expired.

(b) The applicant shall indicate on a map or plot the location of all trees on the building site, their type and trunk diameters and the trees proposed for removal. Where more than twelve trees are proposed for removal, topographical elevations shall be shown.

(c) A tree shall not be removed solely for purposes of facilitating building, grading, or clearing.

(d) The work of improvement and tree removal work shall be done in such manner as to avoid damage to the trees which are to be preserved or to the root systems thereof. Temporary barricades shall be erected around trees which are to remain. Monterey Pines shall be sprayed with an appropriate insecticide to a height of twelve feet. Any trees which are damaged during construction shall be immediately treated so that cuts are shaped properly and sealed to insure fast healing and to protect against beetle infestation.

(e) The applicant shall plant replacement trees for those removed, in such number, types, sizes, and locations as prescribed in the permit.

(f) The building inspector shall from time to time inspect the tree removal and work of improvement to assure the carrying out of the terms of the permit.

(g) The applicant shall post a bond with the city on which he shall forfeit five hundred dollars for each tree which is removed or substantially damaged above those permitted to be removed, and providing the city with adequate indemnity to replace the number and type of trees required to be replaced by his permit. (Ord. 873 N.S. § 1, 1976; Ord. 817 N.S., 1974).

12.16.130 Stumps – Removal – Nuisance. No person shall leave any portion of a tree stump above the ground for more than thirty days after the tree has been cut if such stump remains visible as a stump to public view. All tree stumps which are visible above the ground level as a stump to public

view, are nuisances which may be abated in the manner prescribed by law. (Ord. 817 N.S., 1974).

12.16.140 Slash removal. Any felled trees, slash, removed tree limbs, or other portions of any tree on the ground shall be removed promptly and in no case shall such be left on the ground for more than thirty days. The provisions of this section shall not apply to cut wood, provided that such cut wood shall not be allowed to rest against or touch any standing tree. Violations of this section are nuisances which may be abated in the manner prescribed by law. (Ord. 817 N.S., 1974).

12.16.150 Appeal to beautification committee. Any person who disagrees with any action of the city manager or his designated representative in denying or issuing any such permit may appeal to the beautification committee, in which case such matter shall be scheduled for hearing by the committee within thirty days after the filing thereof. Action under any permit, the issuance of which has been appealed, shall be suspended pending decision of the committee on the appeal. The committee may set any such appeal for public hearing, giving such notice to the public or to the persons concerned as the committee deems advisable. Following the hearing of any such appeal, the committee may affirm, reverse or modify the action of the city manager and may take any action thereon which would have been authorized in the first instance. The action of the committee on any such appeal is subject to review and approval by the city council. (Ord. 817 N.S., 1974).

12.16.160 Violations. Any person who violates any of the provisions of this chapter or any of the conditions of any permit issued hereunder is guilty of a misdemeanor. Each tree removed, destroyed, or disfigured shall constitute a separate violation. The minimum fine for each violation of this chapter shall be fifty dollars. (Ord. 940 N.S. § 3, 1977; Ord. 817 N.S., 1974.)

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
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I. INTRODUCTION

The Asilomar Dunes form the western portion of the City of Pacific Grove. The white-sand beaches and dunes, along with the extensive stand of Monterey pines, combine to make Asilomar an area of world renown.

In addition to Monterey pines, the Asilomar Dunes are also inhabited by a community of native dune plants and animals that are specially adapted to withstand the harsh conditions characteristic of coastal sand dunes. These conditions include exposure to high concentrations of salt, sandblasting by wind-blown sand, inundation and burial by moving sand, and extremely poor soil quality characterized by low nutrient levels and low water-retention ability. The native dune species not only tolerate these apparently unfavorable conditions, they actually thrive here.

Unfortunately, native dune species have proven less able to deal with other forces which affect the Asilomar area: impacts from human activity. These impacts result from house- and road-building, landscaping with aggressive, invasive, non-native

THEORY

The first part of the paper is devoted to the study of the properties of the $\mathcal{H}^1$ -norm. In particular, we show that the $\mathcal{H}^1$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value. This result is then used to prove the existence and uniqueness of the solution of the problem (1.1).

In the second part, we study the properties of the $\mathcal{H}^2$ -norm. We show that the $\mathcal{H}^2$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value and zero first moments. This result is then used to prove the existence and uniqueness of the solution of the problem (1.2). In the third part, we study the properties of the $\mathcal{H}^3$ -norm. We show that the $\mathcal{H}^3$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value, zero first moments, and zero second moments. This result is then used to prove the existence and uniqueness of the solution of the problem (1.3). In the fourth part, we study the properties of the $\mathcal{H}^4$ -norm. We show that the $\mathcal{H}^4$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value, zero first moments, zero second moments, and zero third moments. This result is then used to prove the existence and uniqueness of the solution of the problem (1.4).

In the fifth part, we study the properties of the $\mathcal{H}^5$ -norm. We show that the $\mathcal{H}^5$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value, zero first moments, zero second moments, zero third moments, and zero fourth moments. This result is then used to prove the existence and uniqueness of the solution of the problem (1.5). In the sixth part, we study the properties of the $\mathcal{H}^6$ -norm. We show that the $\mathcal{H}^6$ -norm is equivalent to the L^2 -norm on the space of functions with zero mean value, zero first moments, zero second moments, zero third moments, zero fourth moments, and zero fifth moments. This result is then used to prove the existence and uniqueness of the solution of the problem (1.6).

plants, and trampling. In the recent past, sand mining and off-road vehicle operation also contributed to these detrimental impacts. As a result of these forces, many native dune plants and animals have been threatened with extinction as the habitat necessary for their survival has disappeared.

Like in other coastal areas of the Monterey Bay region, development and recreational activities have significantly increased in the Asilomar Dunes area. As a result, the detrimental impacts on the natural community have greatly intensified. Several local species have become so rare that they are now protected by state law. Two plants that grow in the Asilomar Dunes are listed as "endangered" by the California Department of Fish and Game: Menzies' wallflower (*Erysimum menziesii*) and Tidestrom's lupine (*Lupinus tidestromii* var. *tidestromii*). Both are low-growing biennials (or short-lived perennials) which are known to inhabit open-sand areas. Menzies' wallflower is known to occur in only three locations in California: the Asilomar Dunes in Monterey County, the Mackerricher Dunes in Mendocino County, and the Samoa Peninsula Dunes in Humboldt County¹. Tidestrom's lupine is known from only

1. There is a fourth occurrence of Menzies' wallflower: in the Marina Dunes of Monterey County. These plants are currently under study, and are soon to be re-classified as a separate subspecies, different from the Menzies' wallflower populations described above.

the Asilomar Dunes. For both species, the major threat is from loss of habitat due to human impact. Where ample habitat exists, both these species may be found in profusion.

The presence of these protected species has affected, but not eliminated, development of parcels in the Asilomar Dunes area. During the past several years, both the City and the California Coastal Commission have set special conditions for approval of coastal development permits in the Asilomar area. These conditions have included:

- 1) alteration of the development design to accommodate the needs of the endangered species;
- 2) enhancement of the habitat (by removing invasive ice plants and/or re-planting endangered species); and
- 3) protection of the habitat (by conservation agreement or dedication of conservation easement).

These mitigations apply only to development projects proposed for portions of the Asilomar Dunes area that are inhabited by endangered species or contain environmentally sensitive dune habitat. Such parcels were identified in a report entitled "Habitat Sensitivity and Identification" prepared for the City by Bruce Cowan in 1981. That report classified the coastal zone of Pacific Grove into areas of varying sensitivity (Appendix 1).

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Currently, the City requires that a botanical survey be conducted on parcels which contain extremely sensitive ("A-1") or highly sensitive ("B-2" or "B-3") dune habitat, as described in the Cowan (1981) report. This policy is also mandated in the City's Local Coastal Program Land Use Plan².

During the past several years, more than a dozen botanical surveys have been conducted in the Asilomar Dunes area as part of this process. These surveys have varied significantly in their methodology, level of detail, timing, and accuracy. In addition, some of the surveys were submitted to the City while others were submitted to the Coastal Commission; there is no single repository for all of them. This hinders researchers trying to understand the health of the endangered species community in the Asilomar Dunes (which, for Tidestrom's lupine, represents its only known habitat in the world). It also hinders planners from understanding how these endangered species are affected by the cumulative impacts of development throughout the Asilomar Dunes area. These reports could help provide a regional perspective, which is an invaluable tool in the management of endangered species and their required habitat.

2. Adopted September 16, ~~1976~~: Sec. 2.3.4. #4, p.13.

1987 J.M.

II. PURPOSE OF STUDY

This study was commissioned by the City of Pacific Grove to provide information regarding the status of endangered species and their required habitat in the Asilomar Dunes area. The study area consisted of 96¹ privately-owned parcels bounded on the east by Asilomar Blvd., on the west by the shoreline, on the north by Lighthouse Ave., and on the south by the Asilomar State Conference Grounds.

The goals of the study were:

1. To update the "Habitat Sensitivity and Identification" study prepared by Cowan (1981).
2. To assess each parcel in the study area for the presence or absence of Tidestrom's lupine and Menzies' wallflower, as well as for the habitat potential.
3. To recommend which parcels would require a botanical survey, should they be subject of a development permit.
4. To recommend standards for botanical surveys.
5. To recommend mitigation policy standards.

3. The Asilomar Dunes study area is actually comprised of 102 parcels; in the present study parcels 007-021-05,-06,-07,-09,-10,-11, and -12 were treated as one parcel because they are under one ownership and their boundaries are not readily discernible.

The first step in the investigation of the life of the insect is to determine its habits. This is done by observing the insect in its natural environment. The next step is to determine the insect's food habits. This is done by observing the insect's feeding behavior. The third step is to determine the insect's reproductive habits. This is done by observing the insect's mating behavior. The fourth step is to determine the insect's dispersal habits. This is done by observing the insect's movement patterns. The fifth step is to determine the insect's survival habits. This is done by observing the insect's response to environmental stressors.

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III. SURVEY METHODS

The study was conducted during the period of April 18 to June 1, 1988. Before the study began, the Director of the Pacific Grove Community Development Department sent a letter to each property owner in the study area (Appendix 2). This letter described the study and asked for property owners' cooperation. The mailing also included a stamped, pre-addressed post card which could be returned by those residents who objected to the presence of the surveyor on their property (Appendix 3). The letter stated that unless a post card was received by the City by April 13, 1988, then the property owner's "acknowledgment and consent will be assumed."

In spite of this stated assumption, no survey of any already-developed property was made without first obtaining permission from the property owner or resident. Whenever possible, properties were surveyed from the street or from an adjoining lot, in order to avoid disturbing the property resident.

During the study, major physical and biological features of each parcel were described. These features included the location of large areas of landscaping, paving, tree-cover, invasive exotics, native dune plants, and open-sand. The presence and general location of any endangered species (Tidestrom's lupine

and Menzies' wallflower) were recorded, but the exact number of plants was not counted. Finally, each parcel was classified according to Cowan's Habitat Sensitivity Identification rating system (HSI). All these observations were designed to provide City planners with a characterization of each parcel, to help determine which parcels required botanical surveys (if development permits were ever sought), and to develop a framework for understanding the extent of endangered plants in the Asilomar Dunes. A more-detailed survey was beyond the scope of this report.

Table 1 - Parcel Survey

Total Parcels	22
Parcel Surveys To Date	12
Conditional Permission	10
Parcel Surveys Pending	10
Parcel Surveys Completed	12
Total Parcels Surveyed	12
Parcel Not Surveyed	10

IV. RESULTS AND DISCUSSION

A. Property Owner Response

Of the letters sent to the owners of 96 parcels in the Asilomar Dunes study area, 19 cards were returned denying property entry to the surveyor ("No Permission To Enter": 20%), 11 cards were returned requesting that the property owner be present when the study was conducted ("Conditional Permission": 11%), and six cards were returned undelivered by the U.S. Postal Service ("No Information": 6%). Of those parcels with returned cards, ten of the "No Permission To Enter" parcels were surveyed from either the street or a neighboring parcel or with information provided from a previous study (Appendix 4), all of the "Conditional Permission" parcels were surveyed when the property owner was present, and two of the "No Information" parcels were surveyed after the owner was contacted, and one was described using information from a previous survey (Appendix 5). This information is summarized in Table 1 below.

TABLE 1 - PARCELS SURVEYED

Total Parcels:	96
No Permission To Enter:	-19
	+10 (Surveyed)*
Conditional Permission:	-11
	+11 (Surveyed)
Cards Returned Undelivered:	-6
	+3 (Surveyed)**
Total Parcels Surveyed:	84
Parcels Not Surveyed:	12

* Includes 2 parcels previously surveyed

** Includes 1 parcel previously surveyed

B. Parcel Classification - HSI

All but 14 of the 96 parcels in the Asilomar Dunes study area were assigned habitat ratings based on Cowan's "Habitat Sensitivity and Identification" rating system (Appendix 6). Of the 82 parcels classified, 59 of them were given multiple ratings, reflecting different conditions on different portions of the parcel. There were 57 parcels classified as extremely sensitive (A-1) and/or highly sensitive (B-2, B-3) habitat. Of the 14 parcels not classified, ten were parcels for which no permission was given for entry, and four were parcels without any residents at home when the study occurred.

In determining a parcel's habitat classification, the absence of endangered plants did not automatically eliminate that property as having potential endangered species habitat. If classification had been based solely on the presence or absence of endangered plants, then a surveyor might conceivably give a low rating to a parcel which, in reality, actually possessed endangered species or their required habitat. This could occur in a number of ways:

1. Endangered plants could be overlooked by the surveyor.

These plants are small and may be difficult to see. Menzies' wallflower, for example, is often found growing in close proximity to beach sagewort (*Artemisia pycnocephala*), and small wallflower seedlings may be hidden from view. In addition, some surveyors may be unfamiliar with the appearance of these plants as young seedlings. At least one survey previously submitted to the City confused Tidestrom's lupines with seedlings of other dune species.

2. Weather conditions could result in an early or late growing season (possibly caused by an unusually dry or wet year). This could affect the number of flowering plants seen by the surveyor. This might also increase the number of seedlings observed, which might, as mentioned above, be mis-identified by inexperienced surveyors.

3. Deer predation might severely reduce the number of endangered plant flowers or disfigure the plants, making them difficult to identify.

With these considerations in mind, habitat classifications were determined based on characteristics of the habitat as well as on the presence or absence of endangered species.

C. Endangered Species

Endangered plants were found on 50 different parcels in the Asilomar Dunes study area (Appendix 8). Tidestrom's lupine was found on 49 of these parcels, and Menzies' wallflower was found on four⁴ of them (co-occurring with Tidestrom's lupine on three parcels). Many of these parcels represented excellent, archetypal habitat: dunes with a sparse cover of native dune plants and with few, if any, areas of invasive Hottentot-fig ice plant.

Several other parcels contained areas of excellent habitat alongside of areas of poor habitat; on these parcels, the poor habitat areas often represented a potential threat to the excellent habitat (e.g. invasive ice plant, extension of forest cover, increased weed growth in dune habitat resulting from watering and fertilizing of adjacent landscaped areas).

In addition, many parcels were found to have endangered Tidestrom's lupine growing in areas which represented less-than-excellent habitat. On several of these parcels, the plants were found growing in very small areas of open sand, surrounded by large masses of ice plant; on other parcels, they were found growing alongside the edge of the road, amid broken pieces of pavement.

4. Information about two of these parcels (007-041-27 and 007-041-28) was gathered in a previous survey.

D. Parcels Requiring Botanical Surveys

Based on the results of the present study, as well as data supplied from previous surveys, a total of 77 parcels are recommended to have botanical surveys conducted, should any of them be considered for a development permit (Appendix 9). These 77 parcels include the 50 on which endangered plants were found, plus 11 parcels on which no endangered species were found but that were rated as A-1, B-2, or B-3, along with eight parcels with other HSI ratings but containing small areas of potential habitat, and eight parcels that were not surveyed during this study and for which no accurate data could be located (Appendix 10). These results are summarized in Table 2 below.

TABLE 2 - SURVEY RESULTS

	<u># Parcels</u>
# In Asilomar Dunes Study Area	96
# Surveyed	82
# Not Surveyed	14
# w/ Endangered Species	50
# Rec'd for Botanical Survey (w/ Endangered Species)	50
# Rec'd for BotSurv (no Endangered Species, but A1,B2,B3)	11
# Rec'd for BotSurv (no Endangered Species, but other designs). ..	8
# Rec'd for BotSurv (lack of information)	8
Total # Rec'd for BotSurv	77
Total # Not Rec'd for BotSurv	19

Of all the parcels in the Asilomar Dunes study area, it is recommended that 19 of them not require botanical surveys for endangered species (Appendix 11). Most of these parcels are characterized mainly as heavily forested areas. Here, the thick tree canopy and the solid ground cover of sedge or ice plant combine to make the habitat unsuitable for both Tidestrom's lupine and Menzies' wallflower.

While these parcels now appear to be free of either endangered species or their potential habitat, it should be noted that the border between the forest and dune is a dynamic feature. Pine trees may eventually spread westward into the open dunes, reducing endangered species habitat. Conversely, dunes may move inland, covering and/or replacing portions of the forest cover with wind-blown sand; this process may be accelerated by conditions which adversely affect Monterey pines in this area, including salt spray and beetle infestation, both of which reduce the pines' ability to hold-off the advancing dune. As the dune/forest boundary changes, potential endangered species habitat may be created or eliminated. This continuing process may have a direct effect on many parcels in the eastern portion of the Asilomar Dunes area, including several large parcels which extend from heavily forested areas near Asilomar Blvd. westward to open dune areas inhabited by either endangered species or their habitat.

A few of the parcels were excluded from needing future botanical surveys because of conditions other than possessing a thick pine forest. In these cases, decisions that the habitat could not support endangered species were made with great care. As described above,

Tidestrom's lupine and Menzies' wallflower are endangered not because of any inherent weakness of the species, but mainly because of the disappearance of their required habitat. Some parcels appeared, at first glance, to lack potential endangered species habitat; closer inspection, however, located limited areas that were occupied by endangered species. A few parcels, for example, were nearly completely covered with Hottentot-fig ice plant (*Carpobrotus edulis*), but Tidestrom's lupines were found growing in small areas of open-sand scattered amid the ice plant. While it is possible that continued growth of ice plant could eventually overwhelm the endangered lupines, it is also possible that open-sand areas in the ice plant cover will continue to expand, providing new habitat. African ice plant scale, an insect which feeds on ice plant, is found throughout the Asilomar Dunes and may eventually produce more patchiness in the ice plant cover, creating more endangered species habitat.

The changes in habitat just described (movement of the forest/dune boundary and increase or decrease of ice plant cover) illustrate the problems which arise when dealing with an area that is affected by dynamic human and natural forces. Any change that affects the presence or absence of habitat potential affects more than endangered species: it also affects the property owner. It is the presence or absence of habitat potential that determines if a parcel needs to be surveyed, and it is the results of this survey that help determine what mitigations are to be required. Clearly, these factors have significant financial consequences for the

property owner. In view of the financial and ecological impact of these changing conditions, it is recommended that the present survey be repeated at 5-year intervals.

V. RECOMMENDATIONS

A. Standards For Botanical Surveys

In past years, botanical surveys of the Asilomar Dunes area have varied in scope, method, and accuracy. In order to provide maximum protection for both the fragile dune habitat and for property owners, the City should set reasonable standards for the conduct of botanical surveys. These standards will also ensure that the City will be provided with enough accurate information necessary for decision making.

1. Botanical surveys must be performed by qualified persons.

In the past, surveys were conducted by persons who mis-identified the endangered species. (At certain stages, Menzies' wallflower may be difficult to distinguish from other native seedlings, e.g. beach primrose, *Camissonia cheiranthifolia*, and beach dandelion, *Agoseris apargioides*). Other times, those conducting surveys have trampled many of the small, fragile seedlings they have been counting.

The Pacific Grove Local Coastal Program Land Use Plan states that botanical surveys required for development permit approval shall be conducted "... by a qualified botanical expert selected from a list to be maintained by the City, in consultation with the Museum of Natural History" (Sec. 2.3.4 #4, p.13). While no criteria have been set to determine level of expertise, it is recommended that the survey be conducted by persons who can demonstrate proficiency either by their

education, training, or experience. It is recommended that a list be compiled of persons who have already submitted botanical surveys to the City who meet these criteria; persons not on the list should be required to submit, in writing, a resumé of their experience, to the Director of the Museum of Natural History, who should be given the authority to expand the list.

2. Botanical surveys for endangered species must be conducted during the appropriate time of year.

For Tidestrom's lupine and Menzies' wallflower, the prime blooming period extends from late winter (beginning of March) through mid-summer (end of July). This period may be skewed earlier or later, depending on weather conditions. Surveys conducted very early or very late in the blooming season may detect some of these plants, but cannot provide an accurate characterization of the endangered species or the habitat at the parcel.

3. Botanical surveys should include more than just a species list.

Among local experts, there is some difference of opinion regarding how detailed the survey should be. Most agree, however, that there is no need to count each endangered plant seedling on the parcel. Vern Yadon, Director of the Pacific Grove Museum of Natural History, states that many of these seedlings may not survive from year-to-year (both species are biennial, or short-lived perennials) and recommends that only plants with flowers be counted (rather than count the number of flowering heads). Others, however, recommend that all seedlings at least be taken into consideration, to be used as an index of the health (and potential) of the habitat.

It is recommended that botanical surveys contain the following elements:

- a. The survey results should be marked on an accurate map of the parcel which depicts topographic contours.

The map should accurately show the location of "endangered species envelopes" (areas within which these species occur), along with a count of the number of endangered flowering plants observed and an estimate of the number of endangered seedlings, within each envelope. The accurate location of the endangered species envelopes is especially critical, because it may be used to determine where development can or cannot be allowed.

- b. The survey should represent a complete study of the parcel, rather than an extrapolation of data gathered by transect or quadrat analysis.

This is recommended because the small size of most parcels in the Asilomar Dunes area allows detailed study without unreasonable expenditure of time.

- c. The survey should include, in the accompanying report, a characterization of the potential endangered species habitat(s) on the parcel.

This should include a description of such elements as:

- 1) estimated % native plant cover;
- 2) estimated % open sand; and
- 3) estimated % invasive plant cover.

as well as any other significant factors.

- d. The survey report should discuss direct and indirect threats to the endangered species on the parcel.

These should include, but not be limited to:

- 1) threats from invasive plants (including Hottentot-fig ice plant);
- 2) threats from movement of unstable wind-blown sand;
- 3) threats from development (including changes in drainage patterns, amount of shade cast onto the dunes, and even predation of dune plants by garden snails attracted to landscape plants);
- 4) threats from deer predation; and
- 5) threats from human trampling.

e. The survey report should recommend mitigations which will offset detrimental impacts of the proposed development.

These may include, but not be limited to:

- 1) analysis of how the proposed development will affect sensitive dune habitat, including assessment of such impacts as changes in drainage, changes in shading, etc.
- 2) establishment of buffer zones between developed areas and natural habitat areas; and
- 3) establishment of conservation easements or deed restrictions to protect sensitive areas, including endangered species habitats;

4. Botanical surveys should be conducted in a manner which has the least detrimental impact on the native plant community at the site.

Those who conduct the botanical surveys should take care to avoid damage to the dune vegetation, especially the fragile seedlings of the endangered species. No collection of any endangered species should be allowed without a Memorandum of Understanding from the California Department of Fish and Game.

5. Botanical surveys should be used to provide planners with an understanding of the cumulative impacts of development in the Asilomar Dunes area.

While each report should provide in-depth information about conditions on a given parcel under consideration for development, the data in these reports may be assembled and assessed to provide much more. To enhance this potential, the City should collect and maintain a complete set of all

botanical surveys conducted in the Asilomar area. These may be obtained from the Coastal Commission, the Department of Fish and Game (Endangered Plant Program), and the Department of Parks and Recreation, as well as from private consultants.

The Community Development Department should file these reports according to the parcel's Assessor's Parcel Number. In the future, information from these reports could be incorporated into computerized records for each parcel. However, it is recommended that this be done cautiously, in view of the variable nature of previous surveys. Perhaps the best way to deal with these older reports would be to assess them completely, allowing consideration of such factors as time and method of study and experience of observer.

6. Botanical surveys should be distributed to agencies and organizations that approve coastal development permits for areas with sensitive environmental habitats.

Copies of each botanical survey should be distributed to:

Pacific Grove Community Development Department
300 16th Street
Pacific Grove, CA 93950

California Coastal Commission
701 Ocean Street, Room 310
Santa Cruz, CA 95060

California Department of Fish and Game
Endangered Plant Program
1416 9th Street
Sacramento, CA 95814

In addition, a copy should be sent to:

Pacific Grove Museum of Natural History
165 Forest Avenue
Pacific Grove, CA 93950

B. Mitigations For Development Permits

As the pressure for development of coastal areas has increased during recent years, governmental regulatory agencies have allowed development in coastal dunes on the condition that negative impacts resulting from the development be mitigated in some way. While these mitigations can never result in a pristine dune habitat, they can significantly enhance conditions, as long as they are thoughtfully planned, regularly monitored, and stringently enforced. The following guidelines are recommended:

1. Mitigations in the Asilomar Dunes area should involve both protection of undisturbed habitat and enhancement (restoration) of disturbed habitat.

Protection of existing, undisturbed habitat should be the highest goal of the planning process. Undisturbed habitat is a known factor: it exists, it works. Restoration techniques must still be considered experimental. Restoration can increase the ecological value of already disturbed land, but should not be used in equal trade for development of undisturbed land.

Undisturbed habitat may be protected in several ways. Areas can be set aside as open space easements or conservation easements. These can be protected from further development as well as from adverse human impacts (e.g. damage from trampling, pets, use of herbicides and pesticides, etc.). To ensure the continued management and maintenance of the easement, even if the property changes hands, the agreement

should be a deed restriction, recorded with the county recorder's office. In some cases, it may be possible to have the easement managed by an outside agency, such as a land trust or a dune protection district (see #7 below).

Wherever possible, development should be sited away from undisturbed habitat. This can be achieved by modifying building designs to avoid direct and indirect adverse impacts that could result from such factors as changes in drainage, significant increase in shade, etc.

In addition, steps should be taken to ensure that undisturbed dune areas are protected from damage during construction. These may include:

- a. use of drift ("snow") fencing to protect undisturbed dune habitat as well as endangered species habitat from damage during construction; and
- b. disposal of construction wastes at an approved off-site location.

To ensure implementation of construction-phase mitigation measures, the City should require a pre-construction meeting for the purpose of explaining all necessary environmental protection measures, along with a construction-phase monitoring program, conducted by a qualified person, to verify that all agreed-upon provisions are met. The monitoring need not be extensive, but should involve site visits during the major phases of construction. As described below, damage to

the undisturbed habitat will be the responsibility of the property owner, and must be repaired in a prompt and competent manner. Damage to endangered species, or their required habitat, may be subject to penalties from appropriate government protection agencies (California Department of Fish and Game, U.S. Fish and Wildlife Service).

Further protection of undisturbed dunes could be achieved by appropriate use of fencing and boardwalks, which can reduce, though not totally eliminate, adverse human impacts.

Enhancement of disturbed habitat should entail the removal of exotic, invasive plants such as Hottentot-fig ice plant (*Carpobrotus edulis*), European beach grass (*Ammophila arenaria*), and Pampas grass (*Cortaderia jubata*) which are a threat to the native dune plant and animal habitats.

Removal of these invasive plants should be performed in a manner which is both safe and long-lasting. Use and disposal of all herbicides (e.g. "Round-Up") must strictly follow all directions enclosed by the manufacturer, as well as any special conditions set by the Monterey County Health Department. Special attention must be paid to such factors as herbicide dilution and concentration, air temperature, and wind force and direction. Special steps may need to be taken to protect adjacent dune areas from damage by these herbicides.

Removal of exotic invasives must also deal with potential problems from re-growth of unwanted seedlings during the next growing season, as well as wind erosion of dune sand after the exotic-plant cover has been removed. These problems have been met with varying degrees of success in the Asilomar Dunes area.

Enhancement of disturbed dunes also involves restoration of native dune species. When combined with removal and control of exotic invasives, dune restoration can help the native habitat to recover from the effects of detrimental impacts. While restored dunes cannot be classified as pristine, they can represent, nonetheless, a much higher quality habitat than did the disturbed dunes. In enhancing habitat values, successful restoration also helps these species regain a portion of their former ("historic") range. As with the removal of exotics described above, dune restoration in the Asilomar Dunes area has also had variable success. Guidelines for dunes restoration are discussed in the sections that follow.

2. Mitigations should be clearly described and easily verifiable.

Development-related mitigations should involve specific goals to be achieved during a specified time period. When goals are vague, success cannot be measured. A mitigation requiring that a developer simply "restore the habitat" is too general to be enforced. These goals may deal with projected species composition and densities of native plants to be restored, allowable densities of exotic invasives (preferably, as low as possible), or methods for preventing the disturbance of protected or restored dunes. These goals will serve as the criteria to be assessed by the monitor.

3. Restoration of disturbed habitat must include only species native to the Asilomar Dunes.

It is critical that native plants used in restoration be specific for the Asilomar Dunes. In the Monterey Bay coastal dunes, for example, some restoration projects have introduced exotic species along with native plants. Some exotics such as statice (*Limonium* sp.), introduced by the California Department of Transportation (CalTrans) in the dunes along Highway 1 through the City of Marina, are a minor but unnecessary nuisance. Others, like Hottentot-fig ice plant (*Carpobrotus edulis*) and European beach grass (*Ammophila arenaria*), are extremely invasive, and can outcompete and eventually replace native dune plants, including those serving as habitat for native animals. Unfortunately, many of these exotics have already been introduced into the Asilomar Dunes.

Other plants have been used in dune landscaping projects that were native California species, but not native to the specific area involved. During the landscaping of the Highway 1 dunes in Marina described above, CalTrans used the common bright orange California poppy (*Eschscholzia californica*), apparently without realizing that the proper plant to use in the Marina Dunes should have been the coastal variety (*E. californica* var. *maritima*), which is predominantly yellow.

In another project, Menzies' wallflowers from the Marina Dunes were used in a landscape project located in coastal dunes in the Pebble Beach area. The wallflowers from Marina have different growth characteristics than those found in Asilomar, and they are soon to be described as a different subspecies. While neither of the last two examples represent a threat to their respective dune ecosystems, the introduction of these species does represent an unfortunate oversight as well as a violation of the basic tenets of restoration.

4. Mitigation agreements must be accompanied by a long-term monitoring program.

This is a critical aspect of any mitigation-implementation agreement, because it is the only way to verify if the property owner is meeting the agreed-upon terms. While monitoring might seem intrusive, it should be remembered that these mitigations have been promised by the property owner in return for a development permit. Many of these promised mitigations (e.g. ice plant control, native plant restoration, dune protection) are long-term processes, and a long-term monitoring program is the only way to verify that these promises have been (or are being) kept.

The success of the monitoring will be based, in part, on the clarity and specificity of the mitigation goals and criteria, as described above. In view of the potential for controversy, these criteria must be clearly stated in order to describe to the monitor what conditions must be observed and measured. Some conditions will be easy to verify (e.g. the existence of an intact fenceline or the lack of invasion by aggressive exotics). However, an agreement that requires a property owner to maintain a viable population of Menzies' wallflowers, may be more difficult to verify. What constitutes a viable population? Does the agreement specify a minimum threshold number of these plants which must be maintained, or does it only describe an area that must be set aside and protected? How should the monitor deal with natural problems (e.g. adverse weather, deer predation)? These may constitute

threats to the restoration project, but they are clearly beyond the control of the property owner. Clear restoration criteria are essential. They benefit the property owner, the monitor, and the habitat.

5. Mitigation agreements must include an established mechanism for correcting problems reported by the monitor.

Problem-correction responsibilities might range from repairing a fence to eradicating re-growth of invasive exotics to replanting native species in a restoration area that failed to meet the established criteria. Correction of such problems must be performed according to procedures described in the original agreement. If methods for removal of invasive exotics and planting of appropriate native species were described in the original mitigation agreement, then these same methods should be used as necessary to correct any problems reported by the monitor. The following examples illustrate how such problem-solving could be accomplished:

- a. If the needed repairs involve replanting Menzies' wallflower, then the revegetation methods might include collecting seeds only from local dunes, then outplanting seedlings during late fall to early winter, without use of artificial irrigation.
- b. If ice plant must be stopped before it can encroach on a newly restored area, then it might be necessary to remove the ice plant by hand, wherever it is found growing within five feet of any restoration or undisturbed dune area, rather than spraying it with an herbicide.

This portion of the mitigation agreement should clearly assign responsibility for correcting problems. If the property owner is to be responsible, then the terms of the agreement should be recorded as a deed restriction, which will automatically pass to the new owner whenever the property changes hands. This will clearly establish legal responsibility, and will be helpful in situations where a cooperative owner sells the property to someone with less environmental sensitivity.

6. Mitigation agreements must be enforceable.

Mitigation implementation agreements are often violated, sometimes accidentally, sometimes purposely. There must be an effective method to ensure that violations are redressed. This must be done in a prompt and competent manner, if environmental damage is to be kept to an absolute minimum. If the responsible party is unwilling to take the necessary corrective actions, in the manner described in the mitigation agreement, then there several mechanisms available which can relieve the immediate problem:

a. Cash Deposits/Performance bonds

These may be used to assure that contractors' work will meet specific quality standards. The deposit or bond can be held until the finished project has been inspected and given final approval. This mechanism can be helpful when

the responsible party fails to perform an agreed-upon task necessary to the long-term success of the mitigation agreement.

b. Penalties/Fines

A mitigation agreement can provide for specific fines if established criteria are not met. For example, the developer of a desert resort near Tucson, Arizona agreed to protect saguaro cactuses in the development area. During construction, price tags were hung on each cactus warning construction crews how much would be charged for damage to the vegetation.⁵ To be used most effectively, fines should be imposed in addition to the cost of correcting the problem.

c. Liens

Another available mechanism is the placement of a lien against the responsible party's property in order to pay for necessary actions. This can be carried out by the City.

All of these mechanisms are most effective if the mitigation criteria, the responsibilities of all parties, and the mechanisms for problem correction are clearly described in the mitigation agreement. Any response which falls short of these standards must constitute a violation of the agreement.

5. Patrick Phillips "Fitting in: A desert resort respects its environment." Urban Land Vol.45, No.6, June, 1986.

7. Success of mitigation agreements is best accomplished through the establishment of an implementation program with long-term funding.

An implementation program will help guarantee that long-term mitigation goals can be achieved. In addition, an implementation program may be designed to lessen the financial burden on individual property owners. This could apply to the Asilomar Dunes where many property owners could conceivably need restoration and monitoring services.

An Asilomar Dunes Resource Protection District could be formed to provide services such as native dune plant restoration expertise, native dune plant seeds and seedlings ("greenhouse support"), and monitoring. Such a district could be modeled after the dune preservation district concept described by Nordstrom and Psuty in 1980⁶. This district could be supported by fees charged to property owners in the area. Additional funds could be sought from government

resource protection agencies like the California Department of Fish and Game and the U.S. Fish and Wildlife Service), from the California State Coastal Conservancy, as well as from private foundations and land trusts. During the past several years, these organizations have become increasingly aware that long-term habitat maintenance is as important as habitat acquisition.

6. Karl F. Nordstrom and Norbert P. Psuty "Dune district management: A framework for shorefront protection and land use control." Coastal Zone Management Journal Vol.7, No.1, 1980.

VI. CONCLUSION

Coastal dunes represent one of the most fragile natural environments in the world. While the native plants of this community are able to tolerate extreme physical and biological conditions, they are extremely vulnerable to human-caused impacts. Over the years, these impacts have been so detrimental that some of the species which inhabit the Asilomar Dunes may be threatened with extinction.

In recent years, pressures for both development and protection of the Asilomar Dunes have created controversy and confusion. This report recommends steps that can be taken by the City which will allow both development as well as protection. In order to achieve this goal, the City's policies must be clearly stated and enforceable. Property owners should be informed that their parcels will require special steps in order to be approved for development. As described above, these steps will include submittal of a botanical survey performed by a qualified person at the appropriate season. To reduce costs and frustrations of modifying building designs, it is recommended that the botanical survey be conducted before building design begins.

When a proposed development is identified as having impacts that can potentially affect sensitive coastal dune habitat, the City is mandated by state law⁷ to require that those impacts be

7. California Environmental Quality Act (CEQA) and the California Coastal Act

mitigated, as a condition of permit approval. The mitigations should be aimed at reducing damage to undisturbed habitat, by means of proper location of development, or by establishment of easements; eliminating disturbance to endangered species as well as to their required habitat; and enhancing the quality of disturbed habitat, through removal and control of exotic invasive plants and through replanting and restoration of appropriate native dune flora. Because these mitigations are long-term, and are dependent on such factors as plant growth and control of human behavior, it is critical that all agreed-upon mitigations be enforced in an effective and reasonable manner. This can be achieved through means such as legally binding agreements, yearly monitoring, and financial guarantees. Though these recommendations may seem intrusive, they will help ensure that promises made between property owners and the City can be kept. If these promises are forgotten, both the environment and the character of the Asilomar Dunes suffer, and the public trust is violated.

Appendix 1

HABITAT SENSITIVITY AND IDENTIFICATION RATINGS (after Cowan, 1981)

- A. **Extreme sensitivity.** Fragile natural plant communities and landforms; endangered native plant species known or very likely to occur.
1. Sand dunes, usually with 50% to 100% native plant cover, relatively undisturbed.
- B. **High Sensitivity.** Remnant fragile natural plant communities; sensitivity due in part to fragile nature of landforms; endangered plant species probably no longer occurring but could potentially be restored to suitable habitats.
2. Sand dunes with less than 50% native plant cover, partially disturbed, with predominantly exotic plant cover (ice plant, weeds, acacias).
 3. Severely disturbed sand dunes with little remaining plant cover and subject to wind erosion and migration.
 4. Coastal bluffs with remnant fragile native shrublet and wildflower communities.
 5. Coastal bluff areas largely denuded of vegetation, but undergoing or subject to severe erosion or breakdown from heavy foot or vehicular traffic.
- C. **Moderate sensitivity.** Natural or landscaped plant cover, not as fragile as above, but unable to withstand unrestricted human impact; endangered native plant species not likely to occur.
6. Coastal bluffs or meadows with substantial native plant cover (coyote bush, sedges).
 7. Coastal bluffs or residential lots artificially landscaped and maintained, with exotic shrubs, flowers, and groundcovers.
 8. Monterey pine forest with native (mostly sedge) understory.
- D. **Low sensitivity.** No valuable or fragile plant communities; no endangered species.
9. Coastal bluffs with heavy, continuous exotic (ice plant) cover.
 10. Rocky bluffs with little or no vegetation.
 11. Sandy intertidal beaches.
 12. Maintained lawn and turf.
 13. Weedy waste places.

ADDITIONAL INFORMATION AND COMMENTS
1950

1. This was a very dry year. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

2. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

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4. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

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11. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

12. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

13. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

14. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

15. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

16. The water level in the reservoir was very low. The water level in the reservoir was very low. The water level in the reservoir was very low.

Appendix 2
LETTER TO RESIDENTS

THE
JOURNAL OF
THE
ROYAL ANTHROPOLOGICAL INSTITUTE

Appendix 3

RESIDENT RETURN POST CARD

107-041-01	7	not surveyed
107-041-02	7	not surveyed
107-041-03	7	not surveyed
107-041-04	7	not surveyed
107-041-05	7	not surveyed
107-041-06	7	not surveyed
107-041-07	7	not surveyed
107-041-08	7	not surveyed
107-041-09	7	not surveyed
107-041-10	7	not surveyed
107-041-11	7	not surveyed
107-041-12	7	not surveyed
107-041-13	7	not surveyed
107-041-14	7	not surveyed
107-041-15	7	not surveyed
107-041-16	7	not surveyed
107-041-17	7	not surveyed
107-041-18	7	not surveyed
107-041-19	7	not surveyed
107-041-20	7	not surveyed
107-041-21	7	not surveyed
107-041-22	7	not surveyed
107-041-23	7	not surveyed
107-041-24	7	not surveyed
107-041-25	7	not surveyed
107-041-26	7	not surveyed
107-041-27	7	not surveyed
107-041-28	7	not surveyed
107-041-29	7	not surveyed
107-041-30	7	not surveyed
107-041-31	7	not surveyed
107-041-32	7	not surveyed
107-041-33	7	not surveyed
107-041-34	7	not surveyed
107-041-35	7	not surveyed
107-041-36	7	not surveyed
107-041-37	7	not surveyed
107-041-38	7	not surveyed
107-041-39	7	not surveyed
107-041-40	7	not surveyed
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107-041-42	7	not surveyed
107-041-43	7	not surveyed
107-041-44	7	not surveyed
107-041-45	7	not surveyed
107-041-46	7	not surveyed
107-041-47	7	not surveyed
107-041-48	7	not surveyed
107-041-49	7	not surveyed
107-041-50	7	not surveyed
107-041-51	7	not surveyed
107-041-52	7	not surveyed
107-041-53	7	not surveyed
107-041-54	7	not surveyed
107-041-55	7	not surveyed
107-041-56	7	not surveyed
107-041-57	7	not surveyed
107-041-58	7	not surveyed
107-041-59	7	not surveyed
107-041-60	7	not surveyed
107-041-61	7	not surveyed
107-041-62	7	not surveyed
107-041-63	7	not surveyed
107-041-64	7	not surveyed
107-041-65	7	not surveyed
107-041-66	7	not surveyed
107-041-67	7	not surveyed
107-041-68	7	not surveyed
107-041-69	7	not surveyed
107-041-70	7	not surveyed
107-041-71	7	not surveyed
107-041-72	7	not surveyed
107-041-73	7	not surveyed
107-041-74	7	not surveyed
107-041-75	7	not surveyed
107-041-76	7	not surveyed
107-041-77	7	not surveyed
107-041-78	7	not surveyed
107-041-79	7	not surveyed
107-041-80	7	not surveyed
107-041-81	7	not surveyed
107-041-82	7	not surveyed
107-041-83	7	not surveyed
107-041-84	7	not surveyed
107-041-85	7	not surveyed
107-041-86	7	not surveyed
107-041-87	7	not surveyed
107-041-88	7	not surveyed
107-041-89	7	not surveyed
107-041-90	7	not surveyed
107-041-91	7	not surveyed
107-041-92	7	not surveyed
107-041-93	7	not surveyed
107-041-94	7	not surveyed
107-041-95	7	not surveyed
107-041-96	7	not surveyed
107-041-97	7	not surveyed
107-041-98	7	not surveyed
107-041-99	7	not surveyed
107-041-100	7	not surveyed

Appendix 4

PARCELS WITHOUT PERMISSION TO ENTER PROPERTY

Parcel #	HSI	Notes
007-041-05	?	not surveyed
007-041-21	?	not surveyed
007-041-22	?	not surveyed
007-041-25	?	not surveyed
007-041-27	B2/C6	not surveyed, data from previous survey [*]
007-041-28	A1/B2/C6	not surveyed, data from previous survey [*]
007-061-12	A1/B2	viewed from street ^{**}
007-061-14	B2/C8	viewed from street and adjacent lot ^{**}
007-061-25	?	not surveyed
007-061-30	?	not surveyed
007-061-34	?	not surveyed
007-061-40	B2,3	viewed from adjacent lot ^{**}
007-061-43	?	not surveyed
007-071-02	A1/B2/C7	viewed from adjacent lot ^{**}
007-071-04	?	viewed from adjacent lot ^{**}
007-071-07	+	viewed from adjacent lot ^{**}
007-072-07	-	not surveyed
007-072-09	+	not surveyed, data from previous survey [*]
007-072-13	+	viewed from adjacent lot ^{**}

^{*} Endangered species reported in previous survey.

^{**} Endangered species observed from off-site.

Appendix 5

PARCELS WITH LETTERS UNDELIVERED

Parcel #	Surveyed	LUTI/ERME	HSI	Notes
007-031-07	+	- / -	C8	1 small open-sand area
007-031-08	+	- / -	C8	pinus/ice plant
007-041-03	+	- / -	C6,8	pinus/landscaped
007-061-18	-	? / ?	??	not surveyed (NAH), LUTI on adjacent lots
007-072-18	-	? / ?	??	not surveyed (NAH), LUTI on adjacent lot
007-072-22	+	+ / -	A1/B2, B3/C8	good habitat; previously surveyed

?? Needs botanical survey, in spite of HSI

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

ERME = Menzies' wallflower (*Erysimum menziesii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

NAH = Resident Not At Home

Final Report

**ASILOMAR DUNES HABITAT SURVEY
WITH POLICY RECOMMENDATIONS**

Submitted to

City of Pacific Grove
Community Development Department

By

David Shonman
Coastal Biologist
P.O. Box 238
Pacific Grove, CA
93950

October 11, 1988

Page 1 of 1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

DATE 10/10/2010

BY SP-6 J. L. [REDACTED]
[REDACTED]

2

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10/10/2010
BY SP-6 J. L. [REDACTED]

Page 1 of 1

Appendix 6

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-021-05*	+	+ / -	B2/C6	good habitat in few open-sand areas
007-021-06*				
007-021-07*				
007-021-09*				
007-021-10*				
007-021-11*				
007-021-12*				

* Parcels 007-021-05,-06,-07,-09,-10,-11, and -12 were treated as one parcel: they are contiguous without distinct property boundaries, and are currently under the same ownership.

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species	HSI	Notes
		LUTI/ERME		
007-031-04	+	- / -	C8	pinces/ice plant/ natives
007-031-05	+	- / -	C8	pinces/ice plant/ weeds
007-031-07	+	- / -	C8	1 small open-sand area
007-031-08	+	- / -	C8	pinces/ice plant
007-031-09	+	- / -	C8	pinces/ice plant
007-031-10	+	- / -	C7	LUTI on adjacent lot, viewed from adjacent lot + street
007-031-13	+	- / -	D9**	LUTI on adjacent lot; potential habitat if ice plant opens
007-031-14	+	+ / -	D9**	LUTI in open-sand area
007-031-15	+	- / -	C7**	LUTI on adjacent lot; potential habitat in open-sand areas
007-031-16	+	- / -	C7	totally landscaped
007-031-17	+	- / -	C8/D9	pinces/ice plant
007-031-18	+	- / -	C8/D9	pinces/ice plant

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Appendix 2: Summary

Table 1

Year	Country	Population (millions)	Urban population (millions)	Urban population (%)
1970-71	India	350	150	43
1971-72	India	360	160	44
1972-73	India	370	170	46
1973-74	India	380	180	47
1974-75	India	390	190	49
1975-76	India	400	200	50
1976-77	India	410	210	51
1977-78	India	420	220	52
1978-79	India	430	230	53
1979-80	India	440	240	55
1980-81	India	450	250	56
1981-82	India	460	260	57
1982-83	India	470	270	58
1983-84	India	480	280	58
1984-85	India	490	290	59
1985-86	India	500	300	60
1986-87	India	510	310	61
1987-88	India	520	320	62
1988-89	India	530	330	62
1989-90	India	540	340	63
1990-91	India	550	350	64
1991-92	India	560	360	64
1992-93	India	570	370	65
1993-94	India	580	380	66
1994-95	India	590	390	66
1995-96	India	600	400	67
1996-97	India	610	410	67
1997-98	India	620	420	68
1998-99	India	630	430	68
1999-00	India	640	440	69
2000-01	India	650	450	69
2001-02	India	660	460	70
2002-03	India	670	470	70
2003-04	India	680	480	71
2004-05	India	690	490	71
2005-06	India	700	500	71
2006-07	India	710	510	72
2007-08	India	720	520	72
2008-09	India	730	530	73
2009-10	India	740	540	73
2010-11	India	750	550	73
2011-12	India	760	560	74
2012-13	India	770	570	74
2013-14	India	780	580	74
2014-15	India	790	590	75
2015-16	India	800	600	75
2016-17	India	810	610	75
2017-18	India	820	620	76
2018-19	India	830	630	76
2019-20	India	840	640	76
2020-21	India	850	650	76
2021-22	India	860	660	77
2022-23	India	870	670	77
2023-24	India	880	680	77
2024-25	India	890	690	78
2025-26	India	900	700	78
2026-27	India	910	710	78
2027-28	India	920	720	78
2028-29	India	930	730	79
2029-30	India	940	740	79
2030-31	India	950	750	79
2031-32	India	960	760	79
2032-33	India	970	770	80
2033-34	India	980	780	80
2034-35	India	990	790	80
2035-36	India	1000	800	80
2036-37	India	1010	810	80
2037-38	India	1020	820	81
2038-39	India	1030	830	81
2039-40	India	1040	840	81
2040-41	India	1050	850	81
2041-42	India	1060	860	81
2042-43	India	1070	870	81
2043-44	India	1080	880	81
2044-45	India	1090	890	81
2045-46	India	1100	900	82
2046-47	India	1110	910	82
2047-48	India	1120	920	82
2048-49	India	1130	930	82
2049-50	India	1140	940	83
2050-51	India	1150	950	83
2051-52	India	1160	960	83
2052-53	India	1170	970	83
2053-54	India	1180	980	83
2054-55	India	1190	990	83
2055-56	India	1200	1000	83
2056-57	India	1210	1010	84
2057-58	India	1220	1020	84
2058-59	India	1230	1030	84
2059-60	India	1240	1040	84
2060-61	India	1250	1050	84
2061-62	India	1260	1060	84
2062-63	India	1270	1070	84
2063-64	India	1280	1080	84
2064-65	India	1290	1090	84
2065-66	India	1300	1100	85
2066-67	India	1310	1110	85
2067-68	India	1320	1120	85
2068-69	India	1330	1130	85
2069-70	India	1340	1140	85
2070-71	India	1350	1150	85
2071-72	India	1360	1160	85
2072-73	India	1370	1170	85
2073-74	India	1380	1180	86
2074-75	India	1390	1190	86
2075-76	India	1400	1200	86
2076-77	India	1410	1210	86
2077-78	India	1420	1220	86
2078-79	India	1430	1230	86
2079-80	India	1440	1240	86
2080-81	India	1450	1250	86
2081-82	India	1460	1260	86
2082-83	India	1470	1270	86
2083-84	India	1480	1280	87
2084-85	India	1490	1290	87
2085-86	India	1500	1300	87
2086-87	India	1510	1310	87
2087-88	India	1520	1320	87
2088-89	India	1530	1330	87
2089-90	India	1540	1340	87
2090-91	India	1550	1350	87
2091-92	India	1560	1360	87
2092-93	India	1570	1370	87
2093-94	India	1580	1380	88
2094-95	India	1590	1390	88
2095-96	India	1600	1400	88
2096-97	India	1610	1410	88
2097-98	India	1620	1420	88
2098-99	India	1630	1430	88
2099-00	India	1640	1440	88
2100-01	India	1650	1450	88
2101-02	India	1660	1460	88
2102-03	India	1670	1470	88
2103-04	India	1680	1480	88
2104-05	India	1690	1490	88
2105-06	India	1700	1500	88
2106-07	India	1710	1510	88
2107-08	India	1720	1520	88
2108-09	India	1730	1530	88
2109-10	India	1740	1540	88
2110-11	India	1750	1550	88
2111-12	India	1760	1560	88
2112-13	India	1770	1570	88
2113-14	India	1780	1580	89
2114-15	India	1790	1590	89
2115-16	India	1800	1600	89
2116-17	India	1810	1610	89
2117-18	India	1820	1620	89
2118-19	India	1830	1630	89
2119-20	India	1840	1640	89
2120-21	India	1850	1650	89
2121-22	India	1860	1660	90
2122-23	India	1870	1670	90
2123-24	India	1880	1680	90
2124-25	India	1890	1690	90
2125-26	India	1900	1700	90
2126-27	India	1910	1710	90
2127-28	India	1920	1720	90
2128-29	India	1930	1730	90
2129-30	India	1940	1740	90
2130-31	India	1950	1750	90
2131-32	India	1960	1760	90
2132-33	India	1970	1770	90
2133-34	India	1980	1780	90
2134-35	India	1990	1790	90
2135-36	India	2000	1800	90
2136-37	India	2010	1810	90
2137-38	India	2020	1820	90
2138-39	India	2030	1830	90
2139-40	India	2040	1840	90
2140-41	India	2050	1850	90
2141-42	India	2060	1860	90
2142-43	India	2070	1870	90
2143-44	India	2080	1880	90
2144-45	India	2090	1890	90
2145-46	India	2100	1900	91
2146-47	India	2110	1910	91
2147-48	India	2120	1920	91
2148-49	India	2130	1930	91
2149-50	India	2140	1940	91
2150-51	India	2150	1950	91
2151-52	India	2160	1960	91
2152-53	India	2170	1970	91
2153-54	India	2180	1980	91
2154-55	India	2190	1990	91
2155-56	India	2200	2000	91
2156-57	India	2210	2010	91
2157-58	India	2220	2020	91
2158-59	India	2230	2030	91
2159-60	India	2240	2040	91
2160-61	India	2250	2050	91
2161-62	India	2260	2060	91
2162-63	India	2270	2070	91
2163-64	India	2280	2080	92
2164-65	India	2290	2090	92
2165-66	India	2300	2100	92
2166-67	India	2310	2110	92
2167-68	India	2320	2120	92
2168-69	India	2330	2130	92
2169-70	India	2340	2140	92
2170-71	India	2350	2150	92
2171-72	India	2360	2160	92
2172-73	India	2370	2170	92
2173-74	India	2380	2180	92
2174-75	India	2390	2190	92
2175-76	India	2400	2200	92
2176-77	India	2410	2210	92
2177-78	India	2420	2220	92
2178-79	India	2430	2230	92
2179-80	India	2440	2240	92
2180-81	India	2450	2250	92
2181-82	India	2460	2260	92
2182-83	India	2470	2270	92
2183-84	India	2480	2280	93
2184-85	India	2490	2290	93
2185-86	India	2500	2300	93
2186-87	India	2510	2310	93
2187-88	India	2520	2320	93
2188-89	India	2530	2330	93
2189-90	India	2540	2340	93
2190-91	India	2550	2350	93
2191-92	India	2560	2360	93
2192-93	India	2570	2370	93
2193-94	India	2580	2380	93
2194-95	India	2590	2390	93
2195-96	India	2600	2400	93
2196-97	India	2610	2410	93
2197-98	India	2620	2420	93
2198-99	India	2630	2430	93
2199-00	India	2640	2440	93
2200-01	India	2650	2450	93
2201-02	India	2660	2460	93
2202-03	India	2670	2470	93
2203-04	India	2680	2480	93
2204-05	India	2690	2490	93
2205-06	India	2700	2500	93
2206-07	India	2710	2510	93
2207-08	India	2720	2520	93
2208-09	India	2730	2530	93
2209-10	India	2740	2540	93
2210-11	India	2750	2550	93
2211-12	India	2760	2560	93
2212-13	India	2770	2570	93
2213-14	India	2780	2580	93
2214-15	India	2790	2590	94
2215-16	India	2800	2600	94
2216-17	India	2810	2610	94
2217-18	India	2820	2620	94
2218-19	India	2830	2630	94
2219-20	India	2840	2640	94
2220-21	India	2850	2650	94
2221-22	India	2860	2660	94
2222-23	India			

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species	HSI	Notes
		LUTI/ERME		
007-041-01	+	- / -	C7,8/ D12	pinces/ice plant/landscaped
007-041-03	+	- / -	C6,8	pinces/landscaped
007-041-04	+	- / -	C6,8	few open-sand areas
007-041-05	-	? / ?	?**	not surveyed (NP)
007-041-07	+	+ / -	B2/C7	few open-sand areas
007-041-08	+	- / -	C8**	few open-sand areas, LUTI on adjacent lot
007-041-09	+	- / -	B2	large open-sand area, LUTI on adjacent lot
007-041-10	+	- / -	B2/C8/ D9	pinces/ice plant, LUTI on adjacent lot
007-041-11	+	+ / -	B2/C8/ D9	ice plant/pinices, few LUTI
007-041-12	+	+ / -	A1/B2	ice plant, LUTI in open- sand
007-041-14	+	- / -	C6,8	pinices/sedge/coyote bush
007-041-15	+	- / -	B2	ice plant/open sand
007-041-16	+	- / -	C7,8	trees/ice plant/no open sand

NP = No Permission to Enter Property

ERME = Menzies' wallflower (*Erysimum menziesii*)LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Table 1

Year	Frequency	Percentage	Percentage	Percentage
1971-1972	10	10.0	10.0	10.0
1973-1974	15	15.0	15.0	15.0
1975-1976	20	20.0	20.0	20.0
1977-1978	25	25.0	25.0	25.0
1979-1980	30	30.0	30.0	30.0
1981-1982	35	35.0	35.0	35.0
1983-1984	40	40.0	40.0	40.0
1985-1986	45	45.0	45.0	45.0
1987-1988	50	50.0	50.0	50.0
1989-1990	55	55.0	55.0	55.0
1991-1992	60	60.0	60.0	60.0
1993-1994	65	65.0	65.0	65.0
1995-1996	70	70.0	70.0	70.0
1997-1998	75	75.0	75.0	75.0
1999-2000	80	80.0	80.0	80.0
2001-2002	85	85.0	85.0	85.0
2003-2004	90	90.0	90.0	90.0
2005-2006	95	95.0	95.0	95.0
2007-2008	100	100.0	100.0	100.0

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-041-18	+	- / -	C7	landscaped/weeds/no open sand
007-041-19	+	- / -	C6,8	pinces/no open sand
007-041-20	+	- / -	C6**	few open sand-areas
007-041-21	-	? / ?	**	not surveyed (NP)
007-041-22	-	? / ?	**	not surveyed (NP)
007-041-23	+	- / -	B2/C6,7	ice plant/no open sand habitat potential very low
007-041-24	+	- / -	C6,7,8**	pinces/weeds/landscaped, few open sand areas
007-041-25	-	? / ?	**	not surveyed (NP)
007-041-27	-	+ / +	B2/C6	previously surveyed (NP)
007-041-28	-	+ / +	A1/B2/C6	previously surveyed (NP)
007-041-29	+	? / ?	B2/C6	viewed from street (NAH), LUTI on adjacent lot

NP = No Permission to Enter Property

NAH = Resident Not at Home

ERME = Menzies' wallflower (*Erysimum menziesii*)LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Table 1

Year	Number of cases	Percentage of total cases	Age group	Sex	Occupation
1970-1971	10	10.0	15-24	M	Student
1971-1972	15	15.0	25-34	F	Homemaker
1972-1973	20	20.0	35-44	M	Teacher
1973-1974	25	25.0	45-54	F	Homemaker
1974-1975	30	30.0	55-64	M	Teacher
1975-1976	35	35.0	65-74	F	Homemaker
1976-1977	40	40.0	75-84	M	Teacher
1977-1978	45	45.0	85-94	F	Homemaker
1978-1979	50	50.0	95-104	M	Teacher
1979-1980	55	55.0	105-114	F	Homemaker
1980-1981	60	60.0	115-124	M	Teacher
1981-1982	65	65.0	125-134	F	Homemaker
1982-1983	70	70.0	135-144	M	Teacher
1983-1984	75	75.0	145-154	F	Homemaker
1984-1985	80	80.0	155-164	M	Teacher
1985-1986	85	85.0	165-174	F	Homemaker
1986-1987	90	90.0	175-184	M	Teacher
1987-1988	95	95.0	185-194	F	Homemaker
1988-1989	100	100.0	195-204	M	Teacher
1989-1990	105	105.0	205-214	F	Homemaker
1990-1991	110	110.0	215-224	M	Teacher
1991-1992	115	115.0	225-234	F	Homemaker
1992-1993	120	120.0	235-244	M	Teacher
1993-1994	125	125.0	245-254	F	Homemaker
1994-1995	130	130.0	255-264	M	Teacher
1995-1996	135	135.0	265-274	F	Homemaker
1996-1997	140	140.0	275-284	M	Teacher
1997-1998	145	145.0	285-294	F	Homemaker
1998-1999	150	150.0	295-304	M	Teacher
1999-2000	155	155.0	305-314	F	Homemaker
2000-2001	160	160.0	315-324	M	Teacher
2001-2002	165	165.0	325-334	F	Homemaker
2002-2003	170	170.0	335-344	M	Teacher
2003-2004	175	175.0	345-354	F	Homemaker
2004-2005	180	180.0	355-364	M	Teacher
2005-2006	185	185.0	365-374	F	Homemaker
2006-2007	190	190.0	375-384	M	Teacher
2007-2008	195	195.0	385-394	F	Homemaker
2008-2009	200	200.0	395-404	M	Teacher
2009-2010	205	205.0	405-414	F	Homemaker
2010-2011	210	210.0	415-424	M	Teacher
2011-2012	215	215.0	425-434	F	Homemaker
2012-2013	220	220.0	435-444	M	Teacher
2013-2014	225	225.0	445-454	F	Homemaker
2014-2015	230	230.0	455-464	M	Teacher
2015-2016	235	235.0	465-474	F	Homemaker
2016-2017	240	240.0	475-484	M	Teacher
2017-2018	245	245.0	485-494	F	Homemaker
2018-2019	250	250.0	495-504	M	Teacher
2019-2020	255	255.0	505-514	F	Homemaker
2020-2021	260	260.0	515-524	M	Teacher
2021-2022	265	265.0	525-534	F	Homemaker
2022-2023	270	270.0	535-544	M	Teacher
2023-2024	275	275.0	545-554	F	Homemaker
2024-2025	280	280.0	555-564	M	Teacher
2025-2026	285	285.0	565-574	F	Homemaker
2026-2027	290	290.0	575-584	M	Teacher
2027-2028	295	295.0	585-594	F	Homemaker
2028-2029	300	300.0	595-604	M	Teacher
2029-2030	305	305.0	605-614	F	Homemaker
2030-2031	310	310.0	615-624	M	Teacher
2031-2032	315	315.0	625-634	F	Homemaker
2032-2033	320	320.0	635-644	M	Teacher
2033-2034	325	325.0	645-654	F	Homemaker
2034-2035	330	330.0	655-664	M	Teacher
2035-2036	335	335.0	665-674	F	Homemaker
2036-2037	340	340.0	675-684	M	Teacher
2037-2038	345	345.0	685-694	F	Homemaker
2038-2039	350	350.0	695-704	M	Teacher
2039-2040	355	355.0	705-714	F	Homemaker
2040-2041	360	360.0	715-724	M	Teacher
2041-2042	365	365.0	725-734	F	Homemaker
2042-2043	370	370.0	735-744	M	Teacher
2043-2044	375	375.0	745-754	F	Homemaker
2044-2045	380	380.0	755-764	M	Teacher
2045-2046	385	385.0	765-774	F	Homemaker
2046-2047	390	390.0	775-784	M	Teacher
2047-2048	395	395.0	785-794	F	Homemaker
2048-2049	400	400.0	795-804	M	Teacher
2049-2050	405	405.0	805-814	F	Homemaker
2050-2051	410	410.0	815-824	M	Teacher
2051-2052	415	415.0	825-834	F	Homemaker
2052-2053	420	420.0	835-844	M	Teacher
2053-2054	425	425.0	845-854	F	Homemaker
2054-2055	430	430.0	855-864	M	Teacher
2055-2056	435	435.0	865-874	F	Homemaker
2056-2057	440	440.0	875-884	M	Teacher
2057-2058	445	445.0	885-894	F	Homemaker
2058-2059	450	450.0	895-904	M	Teacher
2059-2060	455	455.0	905-914	F	Homemaker
2060-2061	460	460.0	915-924	M	Teacher
2061-2062	465	465.0	925-934	F	Homemaker
2062-2063	470	470.0	935-944	M	Teacher
2063-2064	475	475.0	945-954	F	Homemaker
2064-2065	480	480.0	955-964	M	Teacher
2065-2066	485	485.0	965-974	F	Homemaker
2066-2067	490	490.0	975-984	M	Teacher
2067-2068	495	495.0	985-994	F	Homemaker
2068-2069	500	500.0	995-1004	M	Teacher
2069-2070	505	505.0	1005-1014	F	Homemaker
2070-2071	510	510.0	1015-1024	M	Teacher
2071-2072	515	515.0	1025-1034	F	Homemaker
2072-2073	520	520.0	1035-1044	M	Teacher
2073-2074	525	525.0	1045-1054	F	Homemaker
2074-2075	530	530.0	1055-1064	M	Teacher
2075-2076	535	535.0	1065-1074	F	Homemaker
2076-2077	540	540.0	1075-1084	M	Teacher
2077-2078	545	545.0	1085-1094	F	Homemaker
2078-2079	550	550.0	1095-1104	M	Teacher
2079-2080	555	555.0	1105-1114	F	Homemaker
2080-2081	560	560.0	1115-1124	M	Teacher
2081-2082	565	565.0	1125-1134	F	Homemaker
2082-2083	570	570.0	1135-1144	M	Teacher
2083-2084	575	575.0	1145-1154	F	Homemaker
2084-2085	580	580.0	1155-1164	M	Teacher
2085-2086	585	585.0	1165-1174	F	Homemaker
2086-2087	590	590.0	1175-1184	M	Teacher
2087-2088	595	595.0	1185-1194	F	Homemaker
2088-2089	600	600.0	1195-1204	M	Teacher
2089-2090	605	605.0	1205-1214	F	Homemaker
2090-2091	610	610.0	1215-1224	M	Teacher
2091-2092	615	615.0	1225-1234	F	Homemaker
2092-2093	620	620.0	1235-1244	M	Teacher
2093-2094	625	625.0	1245-1254	F	Homemaker
2094-2095	630	630.0	1255-1264	M	Teacher
2095-2096	635	635.0	1265-1274	F	Homemaker
2096-2097	640	640.0	1275-1284	M	Teacher
2097-2098	645	645.0	1285-1294	F	Homemaker
2098-2099	650	650.0	1295-1304	M	Teacher
2099-2100	655	655.0	1305-1314	F	Homemaker
2100-2101	660	660.0	1315-1324	M	Teacher
2101-2102	665	665.0	1325-1334	F	Homemaker
2102-2103	670	670.0	1335-1344	M	Teacher
2103-2104	675	675.0	1345-1354	F	Homemaker
2104-2105	680	680.0	1355-1364	M	Teacher
2105-2106	685	685.0	1365-1374	F	Homemaker
2106-2107	690	690.0	1375-1384	M	Teacher
2107-2108	695	695.0	1385-1394	F	Homemaker
2108-2109	700	700.0	1395-1404	M	Teacher
2109-2110	705	705.0	1405-1414	F	Homemaker
2110-2111	710	710.0	1415-1424	M	Teacher
2111-2112	715	715.0	1425-1434	F	Homemaker
2112-2113	720	720.0	1435-1444	M	Teacher
2113-2114	725	725.0	1445-1454	F	Homemaker
2114-2115	730	730.0	1455-1464	M	Teacher
2115-2116	735	735.0	1465-1474	F	Homemaker
2116-2117	740	740.0	1475-1484	M	Teacher
2117-2118	745	745.0	1485-1494	F	Homemaker
2118-2119	750	750.0	1495-1504	M	Teacher
2119-2120	755	755.0	1505-1514	F	Homemaker
2120-2121	760	760.0	1515-1524	M	Teacher
2121-2122	765	765.0	1525-1534	F	Homemaker
2122-2123	770	770.0	1535-1544	M	Teacher
2123-2124	775	775.0	1545-1554	F	Homemaker
2124-2125	780	780.0	1555-1564	M	Teacher
2125-2126	785	785.0	1565-1574	F	Homemaker
2126-2127	790	790.0	1575-1584	M	Teacher
2127-2128	795	795.0	1585-1594	F	Homemaker
2128-2129	800	800.0	1595-1604	M	Teacher
2129-2130	805	805.0	1605-1614	F	Homemaker
2130-2131	810	810.0	1615-1624	M	Teacher
2131-2132	815	815.0	1625-1634	F	Homemaker
2132-2133	820	820.0	1635-1644	M	Teacher
2133-2134	825	825.0	1645-1654	F	Homemaker
2134-2135	830	830.0	1655-1664	M	Teacher
2135-2136	835	835.0	1665-1674	F	Homemaker
2136-2137	840	840.0	1675-1684	M	Teacher
2137-2138	845	845.0	1685-1694	F	Homemaker
2138-2139	850	850.0	1695-1704	M	Teacher
2139-2140	855	855.0	1705-1714	F	Homemaker
2140-2141	860	860.0	1715-1724	M	Teacher
2141-2142	865	865.0	1725-1734	F	Homemaker
2142-2143	870	870.0	1735-1744	M	Teacher
2143-2144	875	875.0	1745-1754	F	Homemaker
2144-2145	880	880.0	1755-1764	M	Teacher
2145-2146	885	885.0	1765-1774	F	Homemaker
2146-2147	890	890.0	1775-1784	M	Teacher
2147-2148	895	895.0	1785-1794	F	Homemaker
2148-2149	900	900.0	1795-1804	M	Teacher
2149-2150	905	905.0	1805-1814	F	Homemaker
2150-2151	910	910.0	1815-1824	M	Teacher
2151-2152	915	915.0	1825-1834	F	Homemaker
2152-2153	920	920.0	1835-1844	M	Teacher
2153-2154	925	925.0	1845-1854	F	Homemaker
2154-2155	930	930.0	1855-1864	M	Teacher
2155-2156	935	935.0	1865-1874	F	Homemaker
2156-2157	940	940.0	1875-1884	M	Teacher
2157-2158	945	945.0	1885-1894	F	Homemaker
2158-2159	950	950.0	1895-1904	M	Teacher
2159-2160	955	955.0	1905-1914	F	Homemaker
2160-2161	960	960.0	1915-1924	M	Teacher
2161-2162	965	965.0	1925-1934	F	Homemaker
2162-2163	970	970.0	1935-1944	M	Teacher
2163-2164	975	975.0	1945-1954	F	Homemaker
2164-2165	980	980.0	1955-1964	M	Teacher
2165-2166	985	985.0	1965-1974	F	Homemaker
2166-2167	990				

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-061-01	+	+ / -	B2,3/ C6	several open sand-areas
007-061-03	+	+ / -	B2/C8	good open-sand habitat
007-061-05	+	- / -	B2/C7, C8	few open-sand areas
007-061-06	+	- / -	B2/C7, C8	few open-sand areas
007-061-07	+	- / -	B2/C8	few open-sand areas, LUTI on adjacent lot
007-061-08	+	+ / ?	B2,3	viewed from adjacent lot
007-061-09	+	+ / ?	B2,3/ C7,8	viewed from adjacent lot
007-061-10	+	+ / ?	B2/C7, C8	viewed from adjacent lot
007-061-11	+	+ / -	A1/B2	good habitat
007-061-12	+	+ / ?	A1/B2	viewed from street (NP)
007-061-14	+	+ / ?	B2/C8	viewed from adjacent lot and street (NP)
007-061-15	+	+ / -	B2,3	pinus/ice plant/large open-sand area

NP = No Permission to Enter Property

NAH = Resident Not at Home

ERME = Menzies' wallflower (*Erysimum menziesii*)LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-061-16	-	? / ?	?**	not surveyed (NAH), LUTI on adjacent lots
007-061-18	-	? / ?	?**	not surveyed (NAH), LUTI on adjacent lots
007-061-19	+	+ / -	B2,3/ C8	large open-sand areas
007-061-20	+	+ / -	B3	large open-sand area
007-061-23	+	+ / -	B2	few open sand areas
007-061-24	+	+ / -	B2	several open-sand areas
007-061-25	-	? / ?	?**	not surveyed (NP), LUTI on adjacent lot
007-061-29	+	- / -	B2,3	several open-sand areas/ LUTI on adjacent lot
007-061-30	-	? / ?	?**	not surveyed (NP), LUTI on adjacent lots
007-061-31	+	- / +	B2/C8	large open-sand area, with ERME
007-061-32	+	+ / -	A1/B2/ C7	viewed from adjacent lot, good open-sand habitat
007-061-34	-	? / ?	?**	not surveyed (NP), LUTI on adjacent lots
007-061-35	+	+ / -	A1/B2	few open-sand areas

NP = No Permission to Enter Property

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Appendix B (continued)

continued

Item	Quantity	Unit	Material	Notes
100-001-01	1	EA	100-001-01	100-001-01
100-001-02	1	EA	100-001-02	100-001-02
100-001-03	1	EA	100-001-03	100-001-03
100-001-04	1	EA	100-001-04	100-001-04
100-001-05	1	EA	100-001-05	100-001-05
100-001-06	1	EA	100-001-06	100-001-06
100-001-07	1	EA	100-001-07	100-001-07
100-001-08	1	EA	100-001-08	100-001-08
100-001-09	1	EA	100-001-09	100-001-09
100-001-10	1	EA	100-001-10	100-001-10
100-001-11	1	EA	100-001-11	100-001-11
100-001-12	1	EA	100-001-12	100-001-12
100-001-13	1	EA	100-001-13	100-001-13
100-001-14	1	EA	100-001-14	100-001-14
100-001-15	1	EA	100-001-15	100-001-15
100-001-16	1	EA	100-001-16	100-001-16
100-001-17	1	EA	100-001-17	100-001-17
100-001-18	1	EA	100-001-18	100-001-18
100-001-19	1	EA	100-001-19	100-001-19
100-001-20	1	EA	100-001-20	100-001-20

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-061-36	+	+ / -	A1/B2	good habitat
007-061-40	+	+ / ?	B2,3	viewed from adjacent lot (NP), good habitat
007-061-41	+	+ / -	B2,3/ C6	several open-sand areas
007-061-42	+	+ / +	?**	not fully surveyed (NAH), viewed from driveway, LUTI and ERME on lot
007-061-43	-	? / ?	?**	not surveyed (NP), LUTI on adjacent lot
007-061-44	+	- / -	C8	pinos/ice plant
007-061-45	+	- / -	C8	pinos/ice plant/grass

NP = No Permission to Enter Property

NAH = Resident Not at Home

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Table 1: Data Summary

Variable	Description	Unit	Summary Statistics	
			Mean	Standard Deviation
Age	Age in years	Years	35.2	12.5
Gender	Gender (Male/Female)	Categorical	Male: 52.1%	Female: 47.9%
Education	Years of education	Years	12.8	2.1
Income	Annual income in thousands of dollars	Thousands of dollars	28.5	15.2
Health	Self-reported health status (1-5)	1-5	3.2	1.1
Marital Status	Marital status (Married/Single/Divorced/Widowed)	Categorical	Married: 68.3%	Single: 21.5%
Employment	Employment status (Employed/Unemployed)	Categorical	Employed: 75.4%	Unemployed: 24.6%

Table 1 provides a summary of the key variables and their distribution in the dataset. The variables include demographic information (Age, Gender, Education, Income, Marital Status, Employment) and health-related information (Health). The summary statistics show the mean and standard deviation for the continuous variables, and the percentage distribution for the categorical variables.

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species LUTI/ERME	HSI	Notes
007-071-02	+	+ / ?	A1/B2, C8	viewed from adjacent lot (NP), good habitat
007-071-03	+	+ / -	A1/B2/ C7	large open-sand area
007-071-04	+	+ / ?	?**	viewed from adjacent lot (NP), LUTI on adjacent lot
007-071-05	+	+ / -	A1/B2, B3/C7	good habitat
007-071-07	+	+ / ?	B2/C6	viewed from adjacent lot (NP), few open-sand areas
007-071-09	+	+ / -	B2/C6	few open-sand areas
007-071-10	+	+ / -	B2	few open-sand areas, large acacia grove
007-071-11	+	+ / -	B2/C8	few open-sand areas
007-071-12	+	+ / -	B2/C7	surveyed from street/ few open-sand areas

NP = No Permission to Enter Property

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Appendix 1

Item	Mean	SD	Alpha	Item	Mean	SD	Alpha
1. I am a person who is always on time	4.15	0.85	0.92	11. I am a person who is always on time	4.15	0.85	0.92
2. I am a person who is always on time	4.15	0.85	0.92	12. I am a person who is always on time	4.15	0.85	0.92
3. I am a person who is always on time	4.15	0.85	0.92	13. I am a person who is always on time	4.15	0.85	0.92
4. I am a person who is always on time	4.15	0.85	0.92	14. I am a person who is always on time	4.15	0.85	0.92
5. I am a person who is always on time	4.15	0.85	0.92	15. I am a person who is always on time	4.15	0.85	0.92
6. I am a person who is always on time	4.15	0.85	0.92	16. I am a person who is always on time	4.15	0.85	0.92
7. I am a person who is always on time	4.15	0.85	0.92	17. I am a person who is always on time	4.15	0.85	0.92
8. I am a person who is always on time	4.15	0.85	0.92	18. I am a person who is always on time	4.15	0.85	0.92
9. I am a person who is always on time	4.15	0.85	0.92	19. I am a person who is always on time	4.15	0.85	0.92
10. I am a person who is always on time	4.15	0.85	0.92	20. I am a person who is always on time	4.15	0.85	0.92

Notes: 1. The items are the same as in the main text. 2. The items are the same as in the main text. 3. The items are the same as in the main text. 4. The items are the same as in the main text. 5. The items are the same as in the main text. 6. The items are the same as in the main text. 7. The items are the same as in the main text. 8. The items are the same as in the main text. 9. The items are the same as in the main text. 10. The items are the same as in the main text. 11. The items are the same as in the main text. 12. The items are the same as in the main text. 13. The items are the same as in the main text. 14. The items are the same as in the main text. 15. The items are the same as in the main text. 16. The items are the same as in the main text. 17. The items are the same as in the main text. 18. The items are the same as in the main text. 19. The items are the same as in the main text. 20. The items are the same as in the main text.

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species	HSI	Notes
		LUTI/ERME		
007-072-01	+	+ / -	B2,3	viewed from street, large open-sand area
007-072-03	+	+ / -	B2,3/ C8	good habitat, large open-sand areas
007-072-05	+	+ / -	A1/B2/ C8	good habitat
007-072-06	+	+ / -	A1/B2 C8	good open-sand habitat in western portion
007-072-07	-	? / ?	?**	not surveyed (NP)
007-072-09	+	+ / -	A1,B2	previously surveyed (NP)
007-072-11	+	+ / -	B2/C6	ice plant/sedge/ few open-sand areas with LUTI
007-072-12	+	- / -	B2/C7	LUTI on adjacent lot (parcel boundaries not clear)
007-072-13	+	+ / ?	A1/B2, B3	viewed from adjacent lot (NP), large open-sand area
007-072-14	+	+ / -	B2/C8	good habitat, several LUTI planted by owner
007-072-16	+	+ / -	A1/B2	good habitat, previously surveyed
007-072-18	-	? / ?	?**	not surveyed (NAH), LUTI on adjacent lot
007-072-19	+	+ / -	A1/B2/ C8	good habitat, LUTI transplanted

NP = No Permission to Enter Property

NAH = Resident Not at Home

ERME = Menzies' wallflower (*Erysimum menziesii*)LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

** Needs botanical survey, in spite of HSI

Table 1

Year	Number of cases	Percentage of total cases	Age group	Gender	Location
2010-2011	100	100%	18-24	Male	Urban
2011-2012	120	120%	25-34	Female	Rural
2012-2013	150	150%	35-44	Male	Urban
2013-2014	180	180%	45-54	Female	Rural
2014-2015	200	200%	55-64	Male	Urban
2015-2016	220	220%	65-74	Female	Rural
2016-2017	250	250%	75-84	Male	Urban
2017-2018	280	280%	85-94	Female	Rural
2018-2019	300	300%	95-104	Male	Urban
2019-2020	320	320%	105-114	Female	Rural
2020-2021	350	350%	115-124	Male	Urban
2021-2022	380	380%	125-134	Female	Rural
2022-2023	400	400%	135-144	Male	Urban
2023-2024	420	420%	145-154	Female	Rural
2024-2025	450	450%	155-164	Male	Urban
2025-2026	480	480%	165-174	Female	Rural
2026-2027	500	500%	175-184	Male	Urban
2027-2028	520	520%	185-194	Female	Rural
2028-2029	550	550%	195-204	Male	Urban
2029-2030	580	580%	205-214	Female	Rural
2030-2031	600	600%	215-224	Male	Urban
2031-2032	620	620%	225-234	Female	Rural
2032-2033	650	650%	235-244	Male	Urban
2033-2034	680	680%	245-254	Female	Rural
2034-2035	700	700%	255-264	Male	Urban
2035-2036	720	720%	265-274	Female	Rural
2036-2037	750	750%	275-284	Male	Urban
2037-2038	780	780%	285-294	Female	Rural
2038-2039	800	800%	295-304	Male	Urban
2039-2040	820	820%	305-314	Female	Rural
2040-2041	850	850%	315-324	Male	Urban
2041-2042	880	880%	325-334	Female	Rural
2042-2043	900	900%	335-344	Male	Urban
2043-2044	920	920%	345-354	Female	Rural
2044-2045	950	950%	355-364	Male	Urban
2045-2046	980	980%	365-374	Female	Rural
2046-2047	1000	1000%	375-384	Male	Urban
2047-2048	1020	1020%	385-394	Female	Rural
2048-2049	1050	1050%	395-404	Male	Urban
2049-2050	1080	1080%	405-414	Female	Rural
2050-2051	1100	1100%	415-424	Male	Urban
2051-2052	1120	1120%	425-434	Female	Rural
2052-2053	1150	1150%	435-444	Male	Urban
2053-2054	1180	1180%	445-454	Female	Rural
2054-2055	1200	1200%	455-464	Male	Urban
2055-2056	1220	1220%	465-474	Female	Rural
2056-2057	1250	1250%	475-484	Male	Urban
2057-2058	1280	1280%	485-494	Female	Rural
2058-2059	1300	1300%	495-504	Male	Urban
2059-2060	1320	1320%	505-514	Female	Rural
2060-2061	1350	1350%	515-524	Male	Urban
2061-2062	1380	1380%	525-534	Female	Rural
2062-2063	1400	1400%	535-544	Male	Urban
2063-2064	1420	1420%	545-554	Female	Rural
2064-2065	1450	1450%	555-564	Male	Urban
2065-2066	1480	1480%	565-574	Female	Rural
2066-2067	1500	1500%	575-584	Male	Urban
2067-2068	1520	1520%	585-594	Female	Rural
2068-2069	1550	1550%	595-604	Male	Urban
2069-2070	1580	1580%	605-614	Female	Rural
2070-2071	1600	1600%	615-624	Male	Urban
2071-2072	1620	1620%	625-634	Female	Rural
2072-2073	1650	1650%	635-644	Male	Urban
2073-2074	1680	1680%	645-654	Female	Rural
2074-2075	1700	1700%	655-664	Male	Urban
2075-2076	1720	1720%	665-674	Female	Rural
2076-2077	1750	1750%	675-684	Male	Urban
2077-2078	1780	1780%	685-694	Female	Rural
2078-2079	1800	1800%	695-704	Male	Urban
2079-2080	1820	1820%	705-714	Female	Rural
2080-2081	1850	1850%	715-724	Male	Urban
2081-2082	1880	1880%	725-734	Female	Rural
2082-2083	1900	1900%	735-744	Male	Urban
2083-2084	1920	1920%	745-754	Female	Rural
2084-2085	1950	1950%	755-764	Male	Urban
2085-2086	1980	1980%	765-774	Female	Rural
2086-2087	2000	2000%	775-784	Male	Urban
2087-2088	2020	2020%	785-794	Female	Rural
2088-2089	2050	2050%	795-804	Male	Urban
2089-2090	2080	2080%	805-814	Female	Rural
2090-2091	2100	2100%	815-824	Male	Urban
2091-2092	2120	2120%	825-834	Female	Rural
2092-2093	2150	2150%	835-844	Male	Urban
2093-2094	2180	2180%	845-854	Female	Rural
2094-2095	2200	2200%	855-864	Male	Urban
2095-2096	2220	2220%	865-874	Female	Rural
2096-2097	2250	2250%	875-884	Male	Urban
2097-2098	2280	2280%	885-894	Female	Rural
2098-2099	2300	2300%	895-904	Male	Urban
2099-2100	2320	2320%	905-914	Female	Rural
2100-2101	2350	2350%	915-924	Male	Urban
2101-2102	2380	2380%	925-934	Female	Rural
2102-2103	2400	2400%	935-944	Male	Urban
2103-2104	2420	2420%	945-954	Female	Rural
2104-2105	2450	2450%	955-964	Male	Urban
2105-2106	2480	2480%	965-974	Female	Rural
2106-2107	2500	2500%	975-984	Male	Urban
2107-2108	2520	2520%	985-994	Female	Rural
2108-2109	2550	2550%	995-1004	Male	Urban
2109-2110	2580	2580%	1005-1014	Female	Rural
2110-2111	2600	2600%	1015-1024	Male	Urban
2111-2112	2620	2620%	1025-1034	Female	Rural
2112-2113	2650	2650%	1035-1044	Male	Urban
2113-2114	2680	2680%	1045-1054	Female	Rural
2114-2115	2700	2700%	1055-1064	Male	Urban
2115-2116	2720	2720%	1065-1074	Female	Rural
2116-2117	2750	2750%	1075-1084	Male	Urban
2117-2118	2780	2780%	1085-1094	Female	Rural
2118-2119	2800	2800%	1095-1104	Male	Urban
2119-2120	2820	2820%	1105-1114	Female	Rural
2120-2121	2850	2850%	1115-1124	Male	Urban
2121-2122	2880	2880%	1125-1134	Female	Rural
2122-2123	2900	2900%	1135-1144	Male	Urban
2123-2124	2920	2920%	1145-1154	Female	Rural
2124-2125	2950	2950%	1155-1164	Male	Urban
2125-2126	2980	2980%	1165-1174	Female	Rural
2126-2127	3000	3000%	1175-1184	Male	Urban
2127-2128	3020	3020%	1185-1194	Female	Rural
2128-2129	3050	3050%	1195-1204	Male	Urban
2129-2130	3080	3080%	1205-1214	Female	Rural
2130-2131	3100	3100%	1215-1224	Male	Urban
2131-2132	3120	3120%	1225-1234	Female	Rural
2132-2133	3150	3150%	1235-1244	Male	Urban
2133-2134	3180	3180%	1245-1254	Female	Rural
2134-2135	3200	3200%	1255-1264	Male	Urban
2135-2136	3220	3220%	1265-1274	Female	Rural
2136-2137	3250	3250%	1275-1284	Male	Urban
2137-2138	3280	3280%	1285-1294	Female	Rural
2138-2139	3300	3300%	1295-1304	Male	Urban
2139-2140	3320	3320%	1305-1314	Female	Rural
2140-2141	3350	3350%	1315-1324	Male	Urban
2141-2142	3380	3380%	1325-1334	Female	Rural
2142-2143	3400	3400%	1335-1344	Male	Urban
2143-2144	3420	3420%	1345-1354	Female	Rural
2144-2145	3450	3450%	1355-1364	Male	Urban
2145-2146	3480	3480%	1365-1374	Female	Rural
2146-2147	3500	3500%	1375-1384	Male	Urban
2147-2148	3520	3520%	1385-1394	Female	Rural
2148-2149	3550	3550%	1395-1404	Male	Urban
2149-2150	3580	3580%	1405-1414	Female	Rural
2150-2151	3600	3600%	1415-1424	Male	Urban
2151-2152	3620	3620%	1425-1434	Female	Rural
2152-2153	3650	3650%	1435-1444	Male	Urban
2153-2154	3680	3680%	1445-1454	Female	Rural
2154-2155	3700	3700%	1455-1464	Male	Urban
2155-2156	3720	3720%	1465-1474	Female	Rural
2156-2157	3750	3750%	1475-1484	Male	Urban
2157-2158	3780	3780%	1485-1494	Female	Rural
2158-2159	3800	3800%	1495-1504	Male	Urban
2159-2160	3820	3820%	1505-1514	Female	Rural
2160-2161	3850	3850%	1515-1524	Male	Urban
2161-2162	3880	3880%	1525-1534	Female	Rural
2162-2163	3900	3900%	1535-1544	Male	Urban
2163-2164	3920	3920%	1545-1554	Female	Rural
2164-2165	3950	3950%	1555-1564	Male	Urban
2165-2166	3980	3980%	1565-1574	Female	Rural
2166-2167	4000	4000%	1575-1584	Male	Urban
2167-2168	4020	4020%	1585-1594	Female	Rural
2168-2169	4050	4050%	1595-1604	Male	Urban
2169-2170	4080	4080%	1605-1614	Female	Rural
2170-2171	4100	4100%	1615-1624	Male	Urban
2171-2172	4120	4120%	1625-1634	Female	Rural
2172-2173	4150	4150%	1635-1644	Male	Urban
2173-2174	4180	4180%	1645-1654	Female	Rural
2174-2175	4200	4200%	1655-1664	Male	Urban
2175-2176	4220	4220%	1665-1674	Female	Rural
2176-2177	4250	4250%	1675-1684	Male	Urban
2177-2178	4280	4280%	1685-1694	Female	Rural
2178-2179	4300	4300%	1695-1704	Male	Urban
2179-2180	4320	4320%	1705-1714	Female	Rural
2180-2181	4350	4350%	1715-1724	Male	Urban
2181-2182	4380	4380%	1725-1734	Female	Rural
2182-2183	4400	4400%	1735-1744	Male	Urban
2183-2184	4420	4420%	1745-1754	Female	Rural
2184-2185	4450	4450%	1755-1764	Male	Urban
2185-2186	4480	4480%	1765-1774	Female	Rural
2186-2187	4500	4500%	1775-1784	Male	Urban
2187-2188	4520	4520%	1785-1794	Female	Rural
2188-2189	4550	4550%	1795-1804	Male	Urban
2189-2190	4580	4580%	1805-1814	Female	Rural
2190-2191	4600	4600%	1815-1824	Male	Urban
2191-2192	4620	4620%	1825-1834	Female	Rural
2192-2193	4650	4650%	1835-1844	Male	Urban
2193-2194	4680	4680%	1845-1854	Female	Rural
2194-2195	4700	4700%	1855-1864	Male	Urban
2195-2196	4720	4720%	1865-1874	Female	Rural
2196-2197	4750	4750%	1875-1884	Male	Urban
2197-2198	4780	4780%	1885-1894	Female	Rural
2198-2199	4800	4800%	1895-1904	Male	Urban
2199-2200	4820	4820%	1905-1914	Female	Rural
2200-2201	4850	4850%	1915-1924	Male	Urban
2201-2202	4880	4880%	1925-1934	Female	Rural
2202-2203	4900	4900%	1935-1944	Male	Urban
2203-2204	4920	4920%	1945-1954	Female	Rural
2204-2205	4950	4950%	1955-1964	Male	Urban
2205-2206	4				

Appendix 6 (continued)

PARCEL LIST

APN	Surveyed	Endangered Species	HSI	Notes
		LUTI/ERME		
007-072-20	+	- / -	C8	pinet/ice plant/grass
007-072-21	+	+ / ?	A1/B2, B3	owner opposed to survey after observations began
007-072-22	+	+ / -	A1/B2, B3/C8	good habitat, previously surveyed
007-072-23	+	+ / -	A1	good habitat
007-072-24	+	+ / -	A1/B2,3	(NAH), previously surveyed

NAH = Resident Not at Home

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

Table 2.1.1

Year	Population	Population	Population	Population
1990	100	100	100	100
1991	101	101	101	101
1992	102	102	102	102
1993	103	103	103	103
1994	104	104	104	104
1995	105	105	105	105
1996	106	106	106	106
1997	107	107	107	107
1998	108	108	108	108
1999	109	109	109	109
2000	110	110	110	110

The data in this table are based on the 1990 census and are subject to revision. The population figures are in thousands. The data are presented in this table for the purpose of providing a general overview of the population trends in the country. The data are not intended to be used for statistical analysis or for other purposes.

Appendix 7

PARCELS NOT SURVEYED

APN	Surveyed	Endangered Species		HSI	Notes
		LUTI/ERME			
007-041-05	-	? / ?	***		no permission to enter property
007-041-21	-	? / ?	***		no permission to enter property
007-041-22	-	? / ?	***		no permission to enter property
007-041-25	-	? / ?	***		no permission to enter property
007-041-27	-	+ / +	B2/C6		no permission to enter property data from previous survey
007-041-28	-	+ / +	A1/B2/ C6		no permission to enter property data from previous survey
007-061-16	-	? / ?	***		resident not at home, LUTI on adjacent lots
007-061-18	-	? / ?	***		resident not at home, LUTI on adjacent lots
007-061-25	-	? / ?	***		no permission to enter property LUTI on adjacent lot
007-061-30	-	? / ?	***		no permission to enter property LUTI on adjacent lots
007-061-34	-	? / ?	***		no permission to enter property LUTI on adjacent lots
007-061-43	-	? / ?	***		no permission to enter property LUTI on adjacent lot
007-072-07	-	? / ?	***		no permission to enter property
007-072-18	-	? / ?	***		resident not at home, LUTI on adjacent lot

*** Needs botanical survey, in spite of HSI

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

Appendix 8

PARCELS WITH ENDANGERED SPECIES

Parcel #	LUTI/ERME	Parcel #	LUTI/ERME
007-031-05/12*	+ / -	007-071-02	+ / -
007-031-14	+ / -	007-071-03	+ / -
007-041-07	+ / -	007-071-04	+ / ?
007-041-11	+ / -	007-071-05	+ / -
007-041-12	+ / -	007-071-07	+ / -
007-041-27	+ / +	007-071-09	+ / -
007-041-28	+ / +	007-071-10	+ / -
		007-071-11	+ / -
		007-071-12	+ / -
007-061-01	+ / -		
007-061-03	+ / -	007-072-01	+ / -
007-061-08	+ / -	007-072-03	+ / -
007-061-09	+ / -	007-072-05	+ / -
007-061-10	+ / -	007-072-06	+ / -
007-061-11	+ / -	007-072-09	+ / -
007-061-12	+ / -	007-072-11	+ / -
007-061-14	+ / -	007-072-13	+ / -
007-061-15	+ / -	007-072-14	+ / -
007-061-19	+ / -	007-072-16	+ / -
007-061-20	+ / -	007-072-19	+ / -
007-061-23	+ / -	007-072-21	+ / -
007-061-24	+ / -	007-072-22	+ / -
007-061-31	- / +	007-072-23	+ / -
007-061-32	+ / -	007-072-24	+ / -
007-061-35	+ / -		
007-061-36	+ / -		
007-061-40	+ / -		
007-061-41	+ / -		
007-061-42	+ / +		

* Parcel 007-021-05/12 includes parcels 007-021-05, -06, -07, -09, -10, -11, and -12: these parcels are contiguous without readily discernible boundaries, and are currently under the same ownership.

ERME = Menzies' wallflower (*Erysimum menziesii*)

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

Appendix 9

PARCELS RECOMMENDED FOR BOTANICAL SURVEY

Parcel #	LUTI/ERME	HSI	Parcel #	LUTI/ERME	HSI
007-021-05/12*	+ / -	B2/C6	007-061-24	+ / -	B2
007-031-13	- / -	D9**	007-061-25	? / ?	?**
007-031-14	+ / -	D9**	007-061-29	- / -	B2,3
007-031-15	- / -	C7**	007-061-30	? / ?	?**
007-041-05	? / ?	?**	007-061-31	- / +	B2/C8
007-041-07	+ / -	B2/C7	007-061-32	+ / -	A1/B2/C
007-041-08	- / -	C8**	007-061-34	? / ?	?**
007-041-09	- / -	B2	007-061-35	+ / -	A1/B2
007-041-10	- / -	B2/C8/D9	007-061-36	+ / -	A1/B2
007-041-11	+ / -	B2/C8/D9	007-061-40	+ / -	B2,3
007-041-12	+ / -	A1/B2	007-061-41	+ / -	B2,3/C
007-041-15	- / -	B2	007-061-42	+ / +	?**
007-041-20	- / -	C6**	007-061-43	? / ?	?**
007-041-21	? / ?	?**	007-071-02	+ / -	A1/B2,C
007-041-22	? / ?	?**	007-071-03	+ / -	A1/B2/C
007-041-23	- / -	B2/C6,7	007-071-04	+ / ?	?**
007-041-24	- / -	C6,7,8**	007-071-05	+ / -	A1/B2,3
007-041-25	? / ?	?**	007-071-07	+ / -	B2/C6
007-041-27	+ / +	B2/C6	007-071-09	+ / -	B2/C6
007-041-28	+ / +	A1/B2/C6	007-071-10	+ / -	B2
007-041-29	? / ?	B2/C6	007-071-11	+ / -	B2/C8
			007-071-12	+ / -	B2/C7
007-061-01	+ / -	B2,3/C6	007-072-01	+ / -	B2,3
007-061-03	+ / -	B2/C8	007-072-03	+ / -	B2,3/C8
007-061-05	- / -	B2/C7,8	007-072-05	+ / -	A1/B2/C
007-061-06	- / -	B2/C7,8	007-072-06	+ / -	A1/B2/C
007-061-07	- / -	B2/C8	007-072-07	? / ?	?**
007-061-08	+ / -	B2,3	007-072-09	+ / -	A1,B2
007-061-09	+ / -	B2,3/C7,8	007-072-11	+ / -	B2/C6
007-061-10	+ / -	B2/C7,8	007-072-12	- / -	B2/C7
007-061-11	+ / -	A1/B2	007-072-13	+ / -	A1/B2,3
007-061-12	+ / -	A1/B2	007-072-14	+ / -	B2/C8
007-061-14	+ / -	B2/C8	007-072-16	+ / -	A1/B2
007-061-15	+ / -	B2,3	007-072-18	? / ?	?**
007-061-16	? / ?	?**	007-072-19	+ / -	A1/B2/C
007-061-18	? / ?	?**	007-072-21	+ / -	A1/B2,3
007-061-19	+ / -	B2,3/C8	007-072-22	+ / -	A1/B2,3
007-061-20	+ / -	B3	007-072-23	+ / -	A1
007-061-23	+ / -	B2	007-072-24	+ / -	A1/B2,3

* Parcel 007-021-05/12 includes parcels 007-021-05,-06,-07,-09,-10,-11, and -12: these parcels are contiguous without readily discernible boundaries, and are currently under the same ownership.

** Needs botanical survey, in spite of HSI

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)

ERME = Menzies' wallflower (*Erysimum menziesii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

Appendix 10

PARCELS RECOMMENDED FOR BOTANICAL SURVEY
WITH HSI RATINGS OTHER THAN A-1, B-2, AND B-3

Parcel #	LUTI/ERME	HSI	Reason
007-031-13	- / -	D9	LUTI on adjacent lot, parcel has potential habitat if ice plant pattern changes.
007-031-14	+ / -	D9	parcel has LUTI in open-sand area.
007-031-15	- / -	C7	LUTI on adjacent lot, parcel has potential habitat in open-sand area.
007-041-05	? / ?	?	parcel not surveyed (NP).
007-041-08	- / -	C8	LUTI on adjacent lot, parcel has potential habitat in open-sand areas.
007-041-20	- / -	C6	parcel has habitat potential in few open-sand areas.
007-041-21	? / ?	?	parcel not surveyed (NP).
007-041-24	- / -	C6,7,8	parcel has habitat potential in few open-sand areas.
007-041-25	? / ?	?	parcel not surveyed (NP).
007-061-16	? / ?	?	parcel not surveyed (NAH).
007-061-18	? / ?	?	parcel not surveyed (NAH).
007-061-25	? / ?	?	parcel not surveyed (NP), LUTI on adjacent lot.
007-061-30	? / ?	?	parcel not surveyed (NP), LUTI on adjacent lot.
007-061-34	? / ?	?	parcel not surveyed (NP), LUTI on adjacent lot.
007-061-42	+ / +	?	parcel not fully surveyed (NAH), but LUTI and ERME observed on lot.
007-061-43	? / ?	?	parcel not surveyed (NP), LUTI on adjacent lot.
007-071-04	+ / ?	?	parcel not surveyed (NP), but LUTI observed on lot from offsite.
007-072-07	? / ?	?	parcel not surveyed (NP).
007-072-18	? / ?	?	parcel not surveyed (NAH), LUTI on adjacent lot.

LUTI = Tidestrom's lupine (*Lupinus tidestromii*)ERME = Menzies' wallflower (*Erysimum menziesii*)

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)

NP = No Permission to Enter Property

NAH = Resident Not At Home

Appendix 11

PARCELS NOT RECOMMENDED FOR BOTANICAL SURVEY

Parcel #	HSI	Notes
007-031-04	C8	pinces/ice plant/natives
007-031-05	C8	pinces/ice plant/weeds
007-031-07	C8	1 small open-sand area
007-031-08	C8	pinces/ice plant
007-031-09	C8	pinces/ice plant
007-031-10	C7	LUTI on adjacent lot, viewed from adjacent lot and street
007-031-16	C7	totally landscaped
007-031-17	C8/D9	pinces/ice plant
007-031-18	C8/D9	pinces/ice plant
007-041-01	C7,8/D12	pinces/ice plant/landscaped
007-041-03	C6,8	pinces/landscaped
007-041-04	C6,8	few open-sand areas
007-041-14	C6,8	pinces/sedge/coyote bush
007-041-16	C7,8	trees/ice plant/no open
007-041-18	C7	landscaped/weeds/no open sand
007-041-19	C6,8	pinces/no open sand
007-061-44	C8	pinces/ice plant
007-061-45	C8	pinces/ice plant/grass
007-072-20	C8	pinces/ice plant/grass

HSI = Habitat Sensitivity and Identification rating (after Cowan, 1981)



GUIDELINES FOR THE PROTECTION OF
MONARCH BUTTERFLY OVERWINTERING SITES
IN CALIFORNIA

22 June 1986

The Monarch Project
10 Southwest Ash Street
Portland, Oregon 97204
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GUIDELINES FOR THE PROTECTION OF MONARCH BUTTERFLY OVERWINTERING SITES

Introduction

The Monarch (Danaus plexippus) is among the best known insects because of its large size, vibrant beauty and migratory habits. Its regular yearly migrations are legendary. Since they are unable to survive freezing weather the animals journey each fall to a limited number of sites possessing optimal environmental conditions on the coastline of California in the United States or in the high mountains of central Mexico. The migratory Monarchs cluster by the thousands or even millions at their overwintering sites and represent one of the greatest natural phenomena on Earth. This spectacle has been occurring for thousands of years; yet because of human interference, it may disappear in the near future unless dramatic and immediate actions are taken.

The Monarch is a member of a largely tropical group known as the Milkweed butterflies, whose scientific name is the Danaiinae. The caterpillars rely on milkweeds as their sole food source. The plants are crucial to their survival, not only for the nourishment they provide, but also for the chemicals they furnish which render the butterflies poisonous to many birds, one of their major predators. The Monarch's elaborate bird-like migratory behavior enables it to take advantage of this food supply in wide areas of North America.

There are two populations of this butterfly in North America with distinct migration routes and overwintering areas. The first uses a path east of the Rocky Mountains to reach their roosting sites high in the mountains of central Mexico. The second moves south through the Pacific states (e.g. the Great Basin, the Pacific Northwest, the Southwest, and portions of western Canada) to a limited number of sites located primarily along the coast of California.

The range of the roosting sites in western North America extends from northern Mendocino County in California southward as far as the Ensenada region of Baja California, Mexico. The total number of Monarchs overwintering in this area is unknown, but probably numbers around ten million. Each roost varies in size, but the largest documented site contained 171,000 Monarchs. Prior to 1977, it was believed that all roosts were located near the sea coast. Unexpectedly, some very small overwintering sites have recently been found in Bakersfield in the arid southern San Joaquin Valley and in the high desert near Death Valley.

The Monarch has a near worldwide distribution and is in no danger of extinction as a species. However, both the eastern and western populations are extremely vulnerable because of their overwintering strategy. Because the phenomenon of the North American migration could be lost in the near future, the conservation of the Monarch butterfly overwintering sites has been designated a top priority of the IUCN. The IUCN formed in 1948, is a worldwide network of governments, private organizations, scientists and other conservation experts which promotes scientifically based action for the protection of wild living resources. The Monarch is also listed on the international treaty known as the Convention on the Conservation of Migratory Species of Wild Animals (the "Bonn Convention").

Temporary Bivouacs and Permanent Roosts

The annual fall migration protects the Monarchs from frigid northern winters. Freezing weather is fatal to all stages of the butterfly. Clustering behavior commences as the Monarchs are migrating towards their overwintering sites. In the fall (September or October), small numbers of Monarchs begin to cluster at Temporary Bivouacs near the coast. These short term sites are probably the result of locally abundant nectar resources which the butterflies use to build up their internal fat reserves. Many of these colonies disappear in a few weeks, and the larger roosts continue to gain numbers of butterflies during this time. Presumably, with decreasing air temperatures, declining amounts of nectar and shortening day length, the small temporary sites break up and their individuals fly on to join with other butterflies in the larger Permanent Roosts which persist through the winter. Permanent Roosts are defined as those cluster sites which persist past the Winter Solstice and possess environmental conditions which allow the Monarchs to mate prior to their dispersal inland in February or March.

Permanent Roosts are typically located close to the coast usually within 1.5 kilometers of the shoreline. The sites are wooded, generally with tall and short trees as well as an understory of brush. Sometimes a clearing within a larger stand of trees is favored. The localities are well protected from winds by a combination of tree cover and topography. Gullies, canyons and lee sides of hills with good tree cover are likely areas. Clusters form from about three meters from the ground to twenty-five meters or more. There is often a stream or pond which supplies drinking water for the Monarchs, although the butterflies may also utilize morning dew. Frequently, flowering plants are found in or near the roost site and serve as a source of nectar. Adults flying on sunny days in midwinter are a sign that a colony is near by. In good weather, individuals may be seen flying short distances (up to 1 kilometer) for water or nectar, or they may simply rest on trees and shrubs in the sun, warming up to fly.

Destruction of the overwintering sites

The mild environmental conditions at the Permanent Roosts provide temperatures cool enough to keep the butterflies from using up internal fat reserves needed for the spring remigration, yet warm enough to keep them from freezing. Relatively few localities in coastal California possess these requirements. Unfortunately, a number of these sites have been eliminated and others are threatened with destruction due to both intentional and unintentional human actions.

A variety of events, primarily real estate and agricultural development, have destroyed overwintering sites in California. As houses, apartments and other structures have been built in a number of roost areas, they have forced the Monarchs to abandon the localities. Other roosts have been eliminated when the cluster trees were cleared and thinned for aesthetic reasons. The disappearance in both cases is due to alteration in the precise climatic conditions required by the overwintering Monarchs. Even though some sites are located on public land, such as military bases, nature reserves and federal, state and local parks, responsible officials are often unaware of the overwintering populations. This is because the roosts are occupied only in the fall, winter and early spring, and even if they are present, the clustered butterflies may easily be overlooked.

Important considerations in protecting and managing
Temporary Bivouacs and Permanent Roosts

1. Land use planners should exercise caution from February to September in processing development plans which would affect sites possessing the characteristics of overwintering habitats, as little evidence of the Monarchs may remain during this time.
2. Development in or near roost sites must be carefully designed so it does not adversely affect the Monarchs. The butterflies are extraordinarily sensitive to changes in microclimate and other environmental factors.
3. Construction in the vicinity of a Monarch roost should be planned so that it occurs only during the months in which the butterflies are not in residence. Roost sites that are developed should be carefully monitored to assess the effect on the Monarchs.
4. Clearing, thinning and pruning of all vegetation should be avoided or carefully managed in and around roost sites. The trees and underbrush provide a "thermal blanket" which protects the butterflies from high wind, freezing, storms and high temperatures.

The thinning of the vegetation cover or alteration of the topographic characteristics should not be undertaken, even at a distance from the site if it will alter the environmental conditions at the roost.

5. The source of drinking water used by the Monarchs should be protected. The water, preferably with seeps, sand bars or substrates which allow the Monarchs to alight and drink in full sunlight, may be supplied by a natural stream or lake or it may come from human sources, such as grass lawns in urban areas. The butterflies are also able to utilize morning dew formed on grass or other vegetation.

6. The nectar plants used by the Monarchs should be protected. Flowers provide a food source which supplements the internal fat reserves of the butterflies during the winter months. Nectaring plants commonly used by the Monarch include gum trees (Eucalyptus), Coyote bush (Baccharis), Wild Mustard (Brassica), Bottlebrush (Callistemon) and a number of other native and introduced flowering species.

1. The first thing I noticed when I stepped out of the plane was the fresh air. It was a relief after the stuffy cabin.

2. The second thing I noticed was the view. The landscape below was beautiful, with rolling hills and a small town.

3. The third thing I noticed was the people. They were friendly and welcoming, and they made me feel at home.

4. The fourth thing I noticed was the food. It was delicious and exactly what I needed after a long flight.

5. The fifth thing I noticed was the weather. It was perfect, not too hot and not too cold.

6. The sixth thing I noticed was the time. It was just what I needed to relax and enjoy the moment.

7. The seventh thing I noticed was the people. They were friendly and welcoming, and they made me feel at home.

8. The eighth thing I noticed was the food. It was delicious and exactly what I needed after a long flight.

7. Application of insecticides, herbicides or other toxic chemicals should be prohibited in and around roost sites.

8. Smoke from fireplace chimneys and campfires should be prohibited in and around roost sites. This pollution source adversely affects Monarchs. Smoke from wood fires causes the butterflies to drop "en masse" to the ground where they may freeze to death, get stepped on by people or be eaten by predators.

The presence of overwintering Monarchs should be considered prior to the issuance of any controlled burning permits during the months when the butterflies are in residence.

9. Public access to the Monarch overwintering sites is desirable; however, great care must be exercised to avoid disturbance of the trees and vegetational understory. Visitors must be informed of the uniqueness and fragility of the Monarchs in order to discourage thoughtless harassment.

The theme "take nothing but pictures, leave nothing but footprints" should prevail within the roost sites. Specifically there should be no collecting of any flowers, plants or animals, no hunting or littering within this area. Taking of souvenir Monarchs should be expressly prohibited. Visitors, when inside the roost should be required to stay on predesignated and maintained trails. Tourism, camping, picnicing and parking should be carefully designed and controlled.

Serious efforts should be made to provide docent/naturalist tours and interpretive signs.

10. It is important to note that although a number of locations may appear to possess optimal conditions for overwintering Monarchs, apparently similar sites are not necessarily equivalent. This may be due to natural environmental conditions, disturbances caused by humans, or for reasons not fully understood at this time.

Some Permanent Roosts may not have all the "requirements" which characterize an optimal site; but may nevertheless be used regularly by the Monarchs.

The population size at one site may vary considerably from year to year. For example, a Permanent Roost may have ten thousand Monarchs one winter, none the next, and several hundred in the third season.

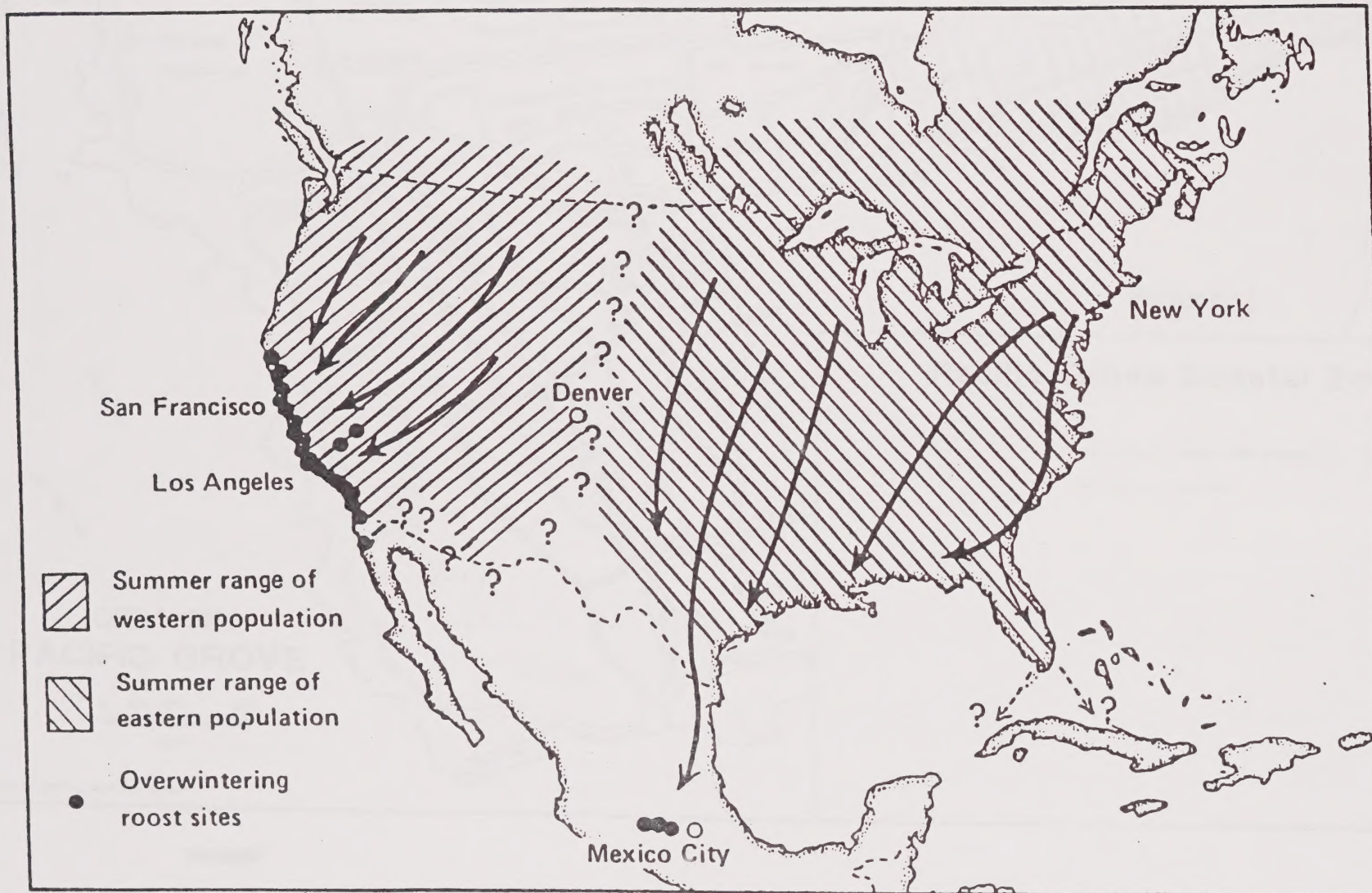
Additionally, whether a site has a Temporary Bivouac or a Permanent Roost may vary from year to year, depending on environmental, ecological and other conditions.

Blue Gum (Eucalyptus globulus), River Gum (Eucalyptus camaldulensis), Monterey Pine (Pinus radiata), and Monterey Cypress (Cupressus macrocarpa) are commonly used for clustering by the Monarchs, although a large variety of native and introduced trees are used.

Conclusion

The conservation and management of the western North American overwintering roosts of the Monarch butterfly involves the protection of a migration system which stretches thousands of miles from dry inland deserts and high mountains to the fog shrouded coastline of California. This massive annual movement of Monarchs is an event comparable to the immense mammal migration of the Serengeti Plains. The migration of this butterfly is vulnerable because the overwintering roosts are often located on sites coveted for other human uses. Even slight alterations in the precise climatic requirements of the Monarchs may render the roost unsuitable for these animals. The task of saving this phenomenon involves areas of the world undergoing rapid environmental change due to a growing human population. It involves habitat preservation where real estate values are skyrocketing. These challenges make it clear the overwintering roosts of the Monarch will be saved only through increased knowledge of the ecology and migratory behavior of the butterfly and especially through greater awareness of the need for protection by government officials and the public.

Land use planners, government officials and developers are cautioned that the Monarch butterfly is a dynamic organism. An expert should be consulted before any action is taken which may affect a site this animal is suspected to use. For more information contact: The Monarch Project, 10 Southwest Ash Street, Portland, Oregon 97204.



SUMMER RANGE AND OVERWINTERING ROOST SITES OF
THE MONARCH BUTTERFLY IN NORTH AMERICA

THE UNIVERSITY OF MICHIGAN LIBRARY



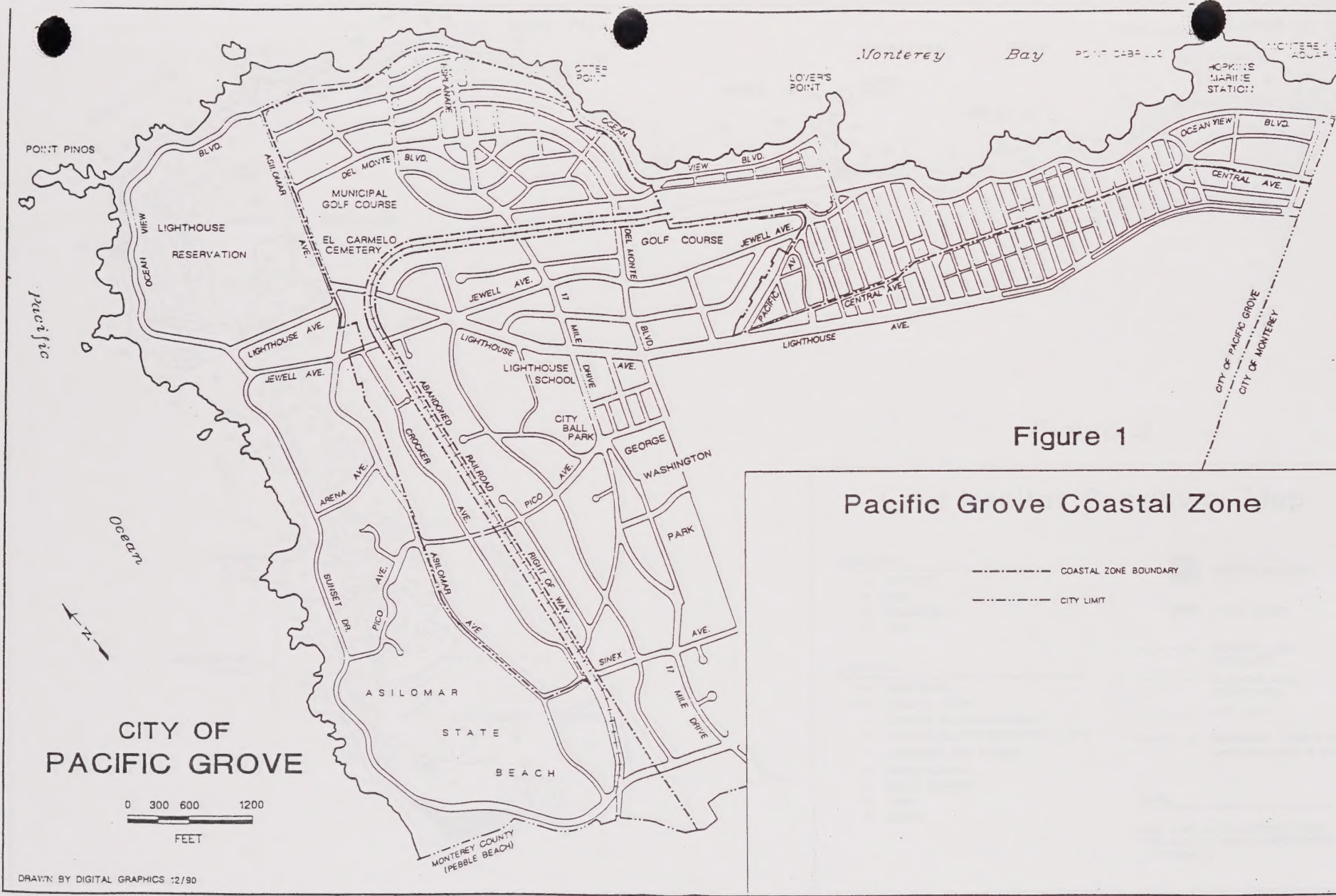


Figure 1

Pacific Grove Coastal Zone

- COASTAL ZONE BOUNDARY
- CITY LIMIT

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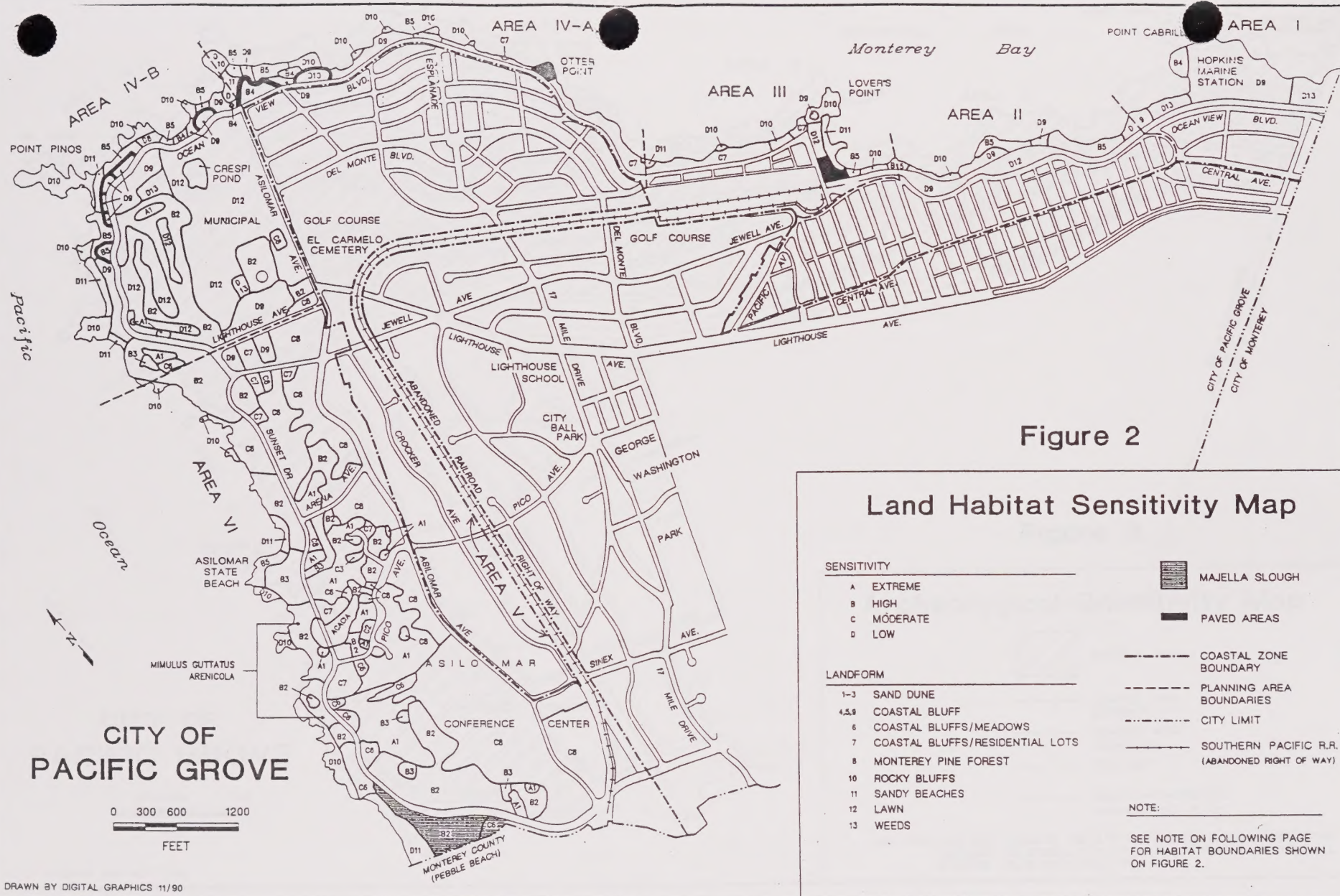
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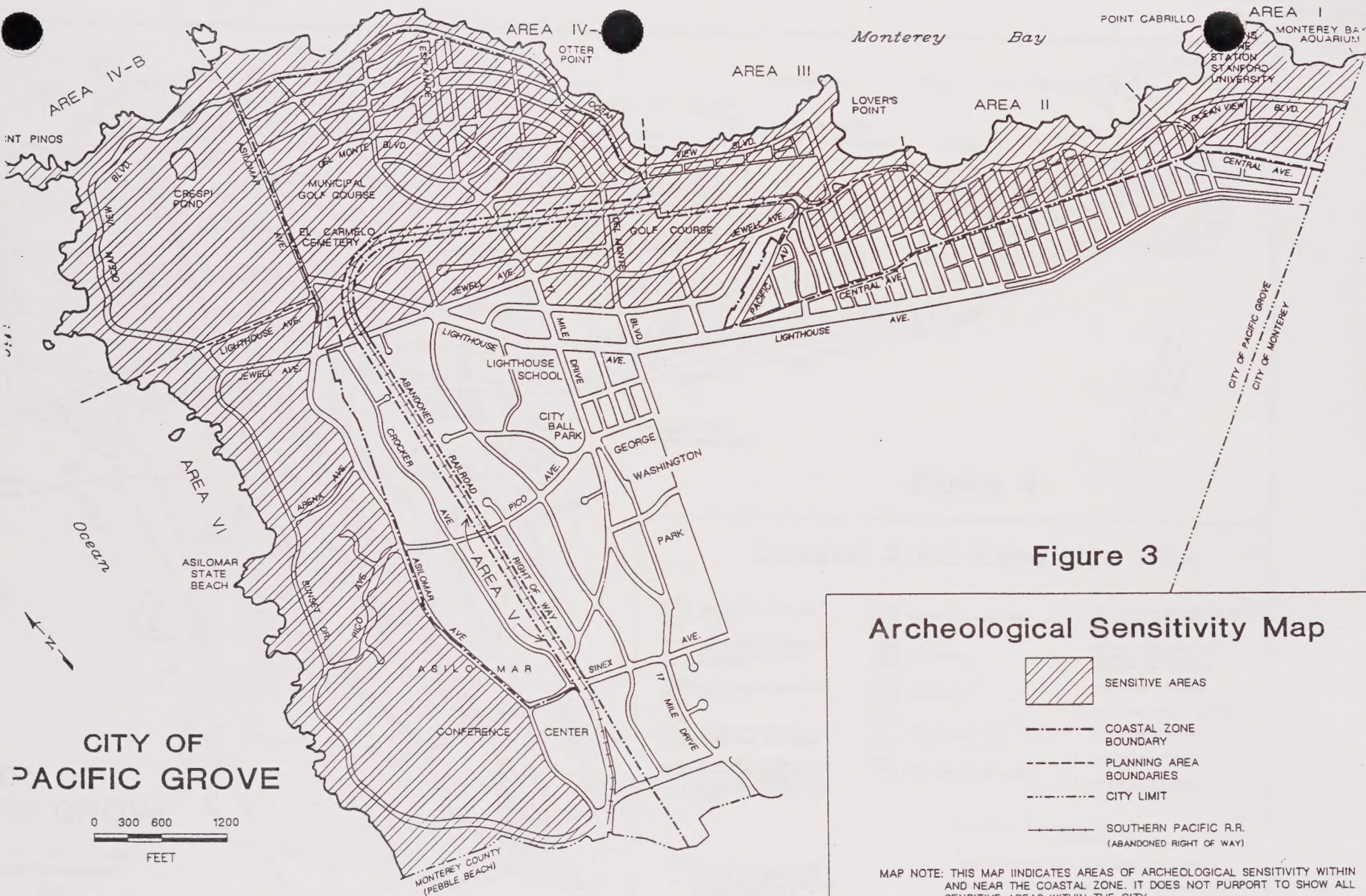


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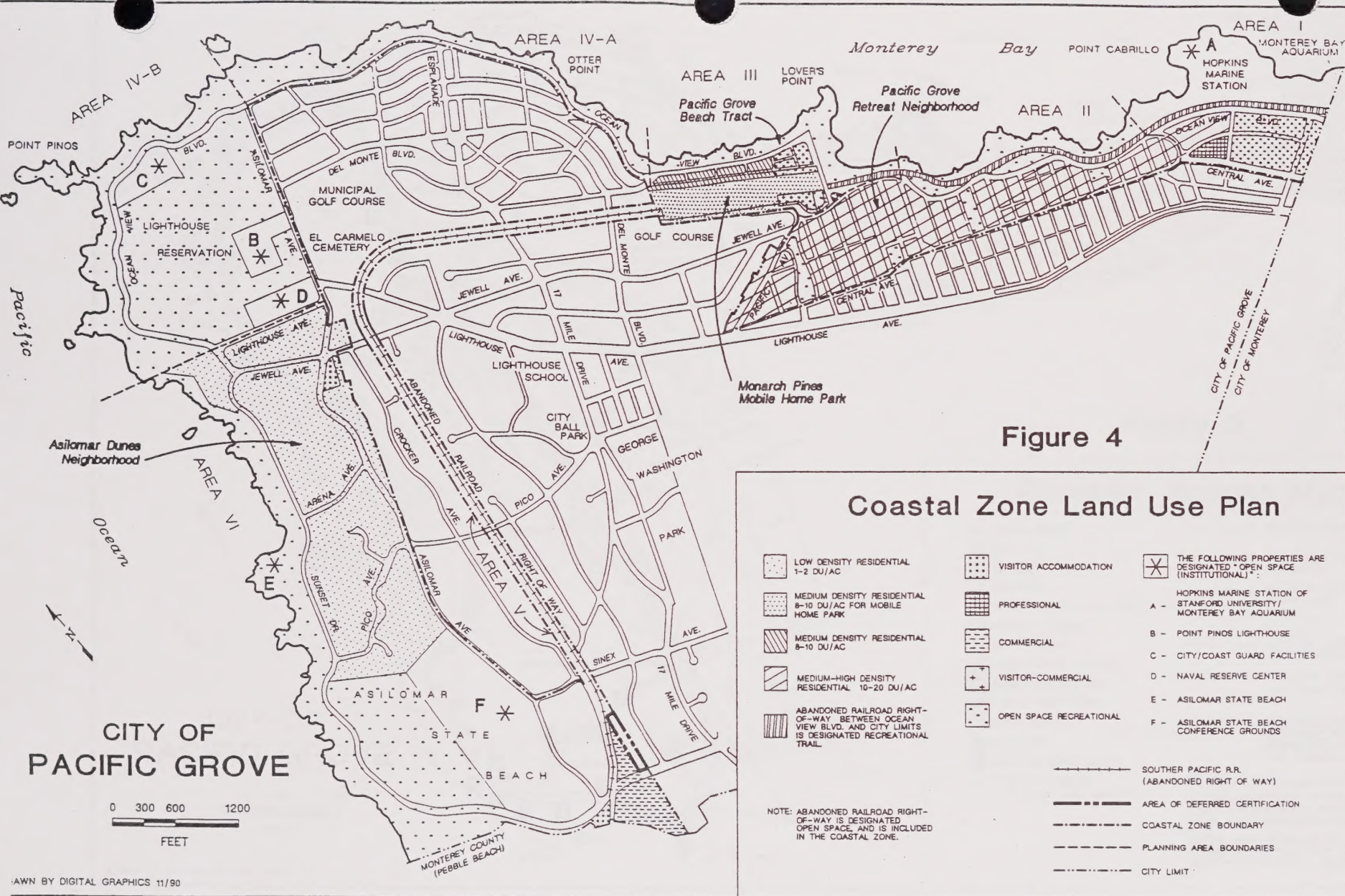
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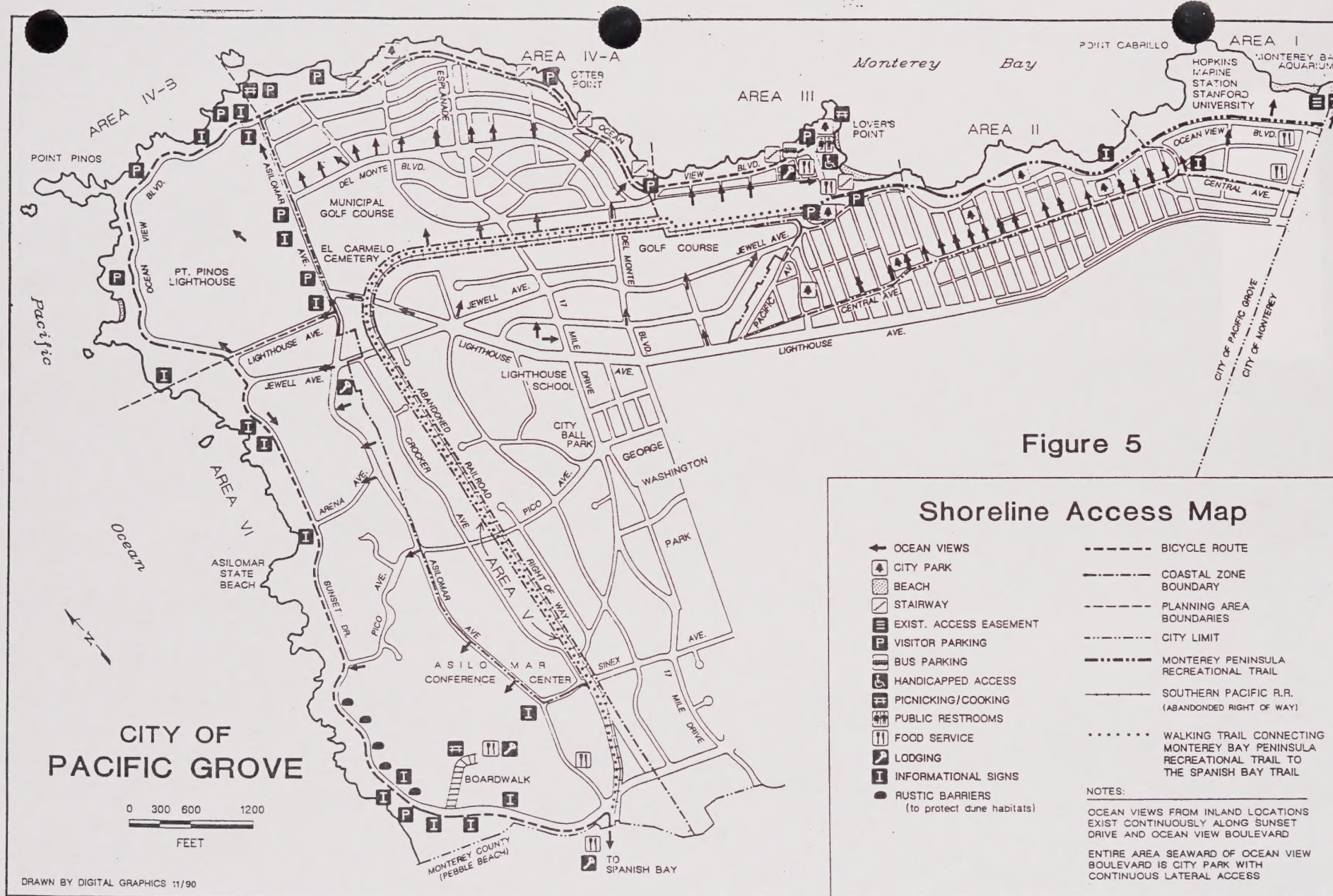














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